RICHARD F. MANN
GEOLOGIST

Open File Report 89-47

MISPEC RESOURCES INC. GOLD PROJECT

CAPE SPENCER, NEW BRUNSWICK

(NTS 21 H/4W)

by

Richard F. Mann

Canada-New Brunswick Mineral Development Agreement
Entente Canada-Nouveau-Brunswick L'Exploitation Minérale

Natural Resources and Energy New Brunswick
Ressources Naturelles et Énergie Nouveau-Brunswick
Energy, Mines and Resources Canada
Énergie, Mines et Ressources Canada

Price $7.30

This report has been prepared for:

Minerals and Energy Division
Department of Natural Resources and Energy
New Brunswick

Hon. Morris Green, Minister

December, 1989

MISPEC RESOURCES INC. GOLD PROJECT

CAPE SPENCER, NEW BRUNSWICK

(NTS 21 H/4W)

This Mineral Investment Stimulation Program project was funded under the Canada-New Brunswick Mineral Development Agreement, a subsidiary agreement under the Economic and Regional Development Agreement.

Copies available by contacting:

Minerals and Energy Division
Department of Natural Resources
and Energy
P.O. Box 6000, Fredericton
New Brunswick E3B 5H1

December, 1989

Report No.: Open File Report 89-47

Author: Richard F. Mann,
Geologist

Catalogue No.: ISSN 0712-4562

90-03190/

This report should be referenced in the following manner:

MANN, R.F. 1989. Mispec Resources Inc. gold project, Cape Spencer, New Brunswick (NTS 21 H/4W). New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Open File Report 89-47, 100 p.

TABLE OF CONTENTS

ABSTRACT iii

1.0 INTRODUCTION 1
1.1 Objective 1
1.2 Scope 1
1.3 Background 3

2.0 PROJECT METHODOLOGY 3
2.1 Drilling 3
2.2 Surface Sampling 5

3.0 RESULTS AND DISCUSSION 5
3.1 Drill Results and Discussion 5
3.2 Surface Sampling Results and Discussion 8

4.0 CONCLUSIONS AND RECOMMENDATIONS 8

5.0 ACKNOWLEDGMENTS 10

6.0 REFERENCES 11

APPENDICES

Appendix 1 Drill logs and assays - Holes MR-105 to MR-122 13

Appendix 2 Assay Procedure for Coarse Gold 95

LIST OF FIGURES

Figure 1 Property Location Map Scale 1:50,000 2

Figure 2 Locations of Surface Bulk Sample Sites Scale 1:1000 9

TABLES

Table I Drill Hole Summaries ..... Page 4

Table II Best Assay Results - Holes MR-105 to MR-122 .. Page 6

MAPS

Map 1 Geology - Road Zone 1:2500*..... Page 96

Map 2 Drill Hole Plan - Road Zone 1:1000 ..... in pocket

Map 2-A Road Zone - Section 0+25 E* ..... Page 97
2-B Road Zone - Section 0+50 E* ..... Page 98
2-C Birches - Section 1+75 E* ..... Page 99
2-D Birches - Section 2+00 E* ..... Page 100

*Map at this scale is available for viewing. Reductions have been included in this report

ABSTRACT

1) Diamond drilling was done to help increase the probable tonnage of the Road Zone gold deposit. The program consisted of close spaced drilling at the south end of the deposit where visible gold and higher grade gold mineralization had been found by earlier exploratory drilling. Also, holes were drilled stepping out to the southeast toward the Birches Zone to test for continuity of the deposit(s).

The results were very encouraging. Visible gold was spotted in four holes in this area. Significant sections of the altered auriferous rock (quartz-ankerite-illite) were defined with potentially economic grades.

2) A total of 25 samples, each approximately 15 kg were collected by backhoe form spots along the exposed trench. They were then sent to Technical University of Nova Scotia for leach tests. The grades ranged from .006 to .071 for this enriched surficial material. The average grade of the assays is .020 . This is interpreted as an approximate grade only for the surface material. Detailed bulk tests are required to properly assess the zone.

1.0 INTRODUCTION

Mispec Resources Inc. is currently exploring its 923.27 hectare (2,281.4 acre) mining licence located near Cape Spencer, about 16 km east of Saint John.

Several auriferous alteration zones, identical to the adjacent producing gold deposit (owned by Gordex Minerals Ltd) occur in the Mispec Resources property which covers the northeasterly extension of the belt of rocks which hosts the Gordex deposit. Prior to and during the course of earlier exploration drilling, New Brunswick Government geologist, Dr. A. A. Ruitenberg, had been in regular contact with Mispec Resources and gave expert advise and general guidance. Dr. Ruitenberg, Mr. Robert Harris, and other N.B. government employees of the Department of Natural Resources informed Mispec Resources that funding under the MISP program was available and they all felt that this property would easily qualify for a MISP grant. Therefore, an application was made and accepted in late July 1987.

1.1 Objective

The objectives of the program were:

a) to delineate the Road Zone deposit to its south and east limits by NQ core drilling.

b) to ascertain an estimate of the grade of the enriched surficial material overlying the auriferous alteration zone.

1.2 Scope

To meet the first objective (further delineation of the Road Zone), a series of mostly vertical NQ diamond drill holes (MR-105

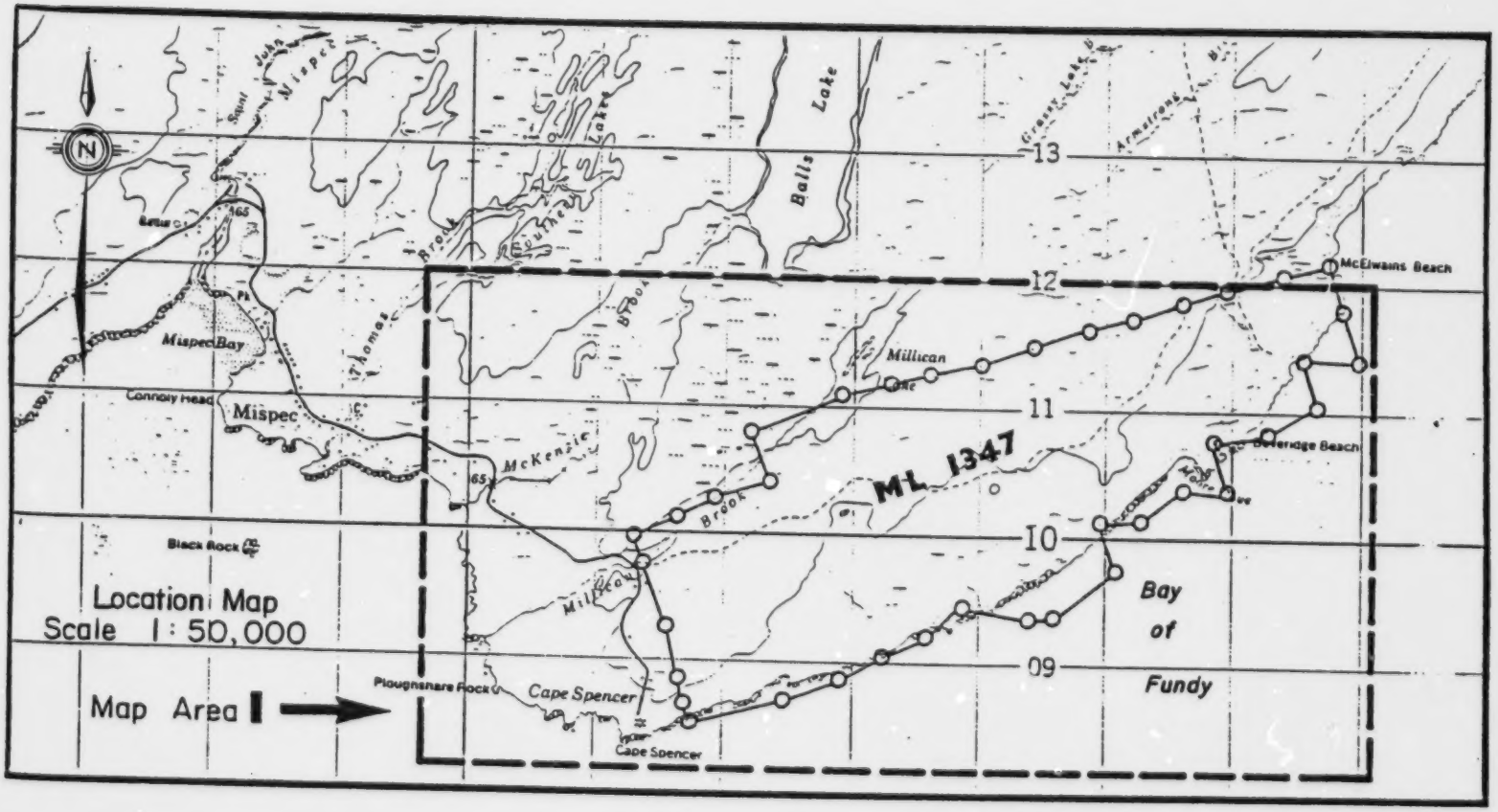

Location Map
Scale 1 : 50,000
Map Area
ML 1347
Mispec Bay
Mispec
Connoly Head
Black Rock
Millican
McKenzie
Brook
Cape Spencer
Ploughshare Rock
McElwains Beach
Bay
of
Fundy
13
12
11
10
09

FIG 1

Zone), a series of mostly vertical NQ diamond drill holes (MR-105 and MR-122 totalling 1453 m) were drilled on the Road Zone in the immediate general area.

The second objective (determination of the grade of surficial material overlying the alteration zone) was met by taking 25 samples, dug by backhoe, from along the strike length of the zone and having them assayed by leaching for gold content.

1.3 Background

An exploration drilling program was begun on the property in August 1986 to test four known auriferous alteration zones found by previous prospecting and trenching. The most significant results of this drilling are from the Road Zone, located up dip and along strike from the nearby gold mine of Gordex Minerals Ltd. Drilling has shown that there is a large probable tonnage of the auriferous host rock (quartz-ankerite-illite alteration) likely in the order of one million tons. Also, visible gold has been seen in a few holes and some high grade intersections.

This report describes the results of drilling and surface sampling done on and near the Road Zone.

2.0 PROJECT METHODOLOGY

2.1 Drilling

A total of 18 NQ drill holes (1453 m) were drilled in the vicinity of the Road Zone-Birches area. The location of the holes are shown on the attached 1:1000 plan. Table I below lists the grid co-ordinates (dip, azimuth, length, etc) for each hole.

TABLE I

DRILL HOLE SUMMARY

DDH No.	Grid Co-ordinates	Dip	Az	Length Meters	Assay Lab	Grid
MR-105	0+50E; 0+12S	V	-	135.64	L	1
MR-106	0+50E; 0+12S	-71	313	53.95	L*	1
MR-107	0+25E; 0+10S	V	-	145.53	L*	1
MR-108	0+25E; 0+10S	-70	313	69.19	L*	1
MR-109	0+25E; 0+18S	V	-	70.71	L*	1
MR-110	2+34E; 0+26N	V	-	60.05	L*	1
MR-111	2+40E; 0+71N	-70	133	68.28	L*	1
MR-112	1+25E; 0+40S	V	-	75.29	L	1
MR-113	1+75E; 0+80S	V	-	47.85	L	1
MR-114	1+00E; 2+00S	V	-	63.09	-	1
MR-115	1+00E; 1+25S	V	-	50.10	-	1
MR-116	0+25E; 0+39S	V	-	130.15	L*	1
MR-117	1+00E; 3+26S	-45	133	99.67	L*	1
MR-118	0+25E; 0+59S	V	-	97.23	L*	1
MR-119	0+00E; 1+08S	V	-	90.53	-	1
MR-120	2+00E; 2+73S	V	-	75.29	L	1
MR-121	0+75E; 0+22S	V	-	53.95	L	1
MR-122	1+64E; 2+93S	V	-	66.14	L	1
		TOTAL:		1,452.64 M		

L = Indicates Loring Labs - Calgary
* = coarse gold assay

All core selected for assay was sent to Loring Labs Ltd. (Calgary, Alberta) for fire assays. Portions of the core, where visible gold has been spotted, or core which looked more pyritic (higher grade), was analyzed using the coarse gold assay method whereby a 300 gram sample is sieved (+150 mesh and -150 mesh), the entire +150 portion and a one assay ton portion (29.36 gm) of the -150 fraction are fire assayed. Holes from which core was assayed for coarse gold are indicated in Table I.

The samples submitted for assay were generally one metre lengths of NQ core which had been split with a mechanical splitter. Sample intervals at contact areas, or short barren intercalated sections, or samples of quartz veins were often slightly more or slightly less than one metre to accommodate the sampled geological feature.

The core is currently stored in core racks at the field office of Mispec Resources Inc. located near Cape Spencer lighthouse. Pulps and rejects for the sampled core are retained by Loring Labs in Calgary.

2.2 Surface Sampling

Twenty-five samples of the oxidized, weathered quartz-ankerite-illite (alteration zone) bedrock were collected from 2.5 to 3 metre deep pits dug by a backhoe along the entire length of the exposed Road Zone (Figure 2).

The samples, each weighing about 15 kg, were sent to the Technical University of Nova Scotia where grades were determined by Cyanide leach tests. The samples were pulverized to 90% minus 325 mesh and the total sample leached with cyanide. The results are shown in Figure 2. The sample sites shown in Figure 2 were marked and labelled with wood laths painted yellow. The pits were filled in after sampling which had involved taking representative material from the top of the hole to its bottom.

3.0 RESULTS AND DISCUSSION

3.1 Drill Results and Discussion

The Road Zone was found to continue south of line 1+00E

(refer to Section 0+50E, 0+25E) where visible gold was seen in four holes. Also, a lower wide alteration zone was found by deeper drilling in this area. It is possible that the upper zone which is thick (10-15 metres) with a known down dip length of 90 metres can be mined using a ramp, following the zone south from line 1+00 E. The upper zone is higher grade than the lower zone.

Although several step out holes (refer to 1:1000 Plan) were negative, a few (MR-120, 122 in the Birches area) did intersect interesting auriferous alteration (Sections 1+75E, 2+00E, Birches area). Table II below summarizes the best assay results obtained from holes MR-105 to MR-122. Drill logs with the complete set of assays are included in Appendix I.

Drilling has shown that the gold bearing alteration zone trends southwesterly, dips gently south and is multiple zoned south of line 1+00 E.

TABLE II

BEST ASSAY RESULTS

HOLES MR-105 TO MR-122

Hole Number	Interval (metres)	Width (metres)	Gold Fire Assay oz/t	gms/tonne
MR-105	26.00 - 34.00	8.00	0.042	1.4
	37.00 - 48.00	11.00	0.027	0.9
	53.20 - 55.50	2.30	0.015	0.5
	56.30 - 57.00	0.70	0.036	1.2
	76.00 - 77.00	1.00	0.014	0.5
	88.00 - 89.00	1.00	0.012	0.4
	103.00 - 107.00	4.00	0.014	0.5
	111.00 - 113.00	2.00	0.013	0.4
	114.00 - 118.00	4.00	0.012	0.4
	125.00 - 126.00	1.00	0.010	0.4

Hole Number	Interval (metres)	Width (metres)	Gold Fire Assay oz/t	gms/tonne
MR-106	24.30 - 25.10	0.80	0.236	8.1
	26.50 - 39.00	12.50	0.018	0.6
	40.00 - 43.00	3.00	0.013	0.4
MR-107	36.30 - 58.00	21.70	0.034	1.2
	62.70 - 64.30	1.60	0.014	0.5
	68.80 - 71.00	2.20	0.025	0.9
	83.00 - 88.00	5.00	0.017	0.6
	98.00 - 99.00	1.00	0.012	0.4
	105.00 - 106.00	1.00	0.018	0.6
	112.00 - 127.00	15.00	0.015	0.5
	130.00 - 131.00	1.00	0.010	0.4
MR-108	41.00 - 47.00	6.00	0.017	0.6
	48.00 - 53.10	5.10	0.040	1.4
MR-109	39.80 - 62.00	22.20	0.029	1.0
	64.70 - 69.60	4.90	0.030	1.0
MR-110	4.00 - 5.00	1.00	0.038	1.3
	10.40 - 17.00	6.60	0.030	1.0
	19.00 - 20.00	1.00	0.012	0.4
	31.50 - 34.00	2.50	0.010	0.4
	42.00 - 46.00	4.00	0.018	0.6
	51.00 - 54.00	3.00	0.030	1.0
MR-112	26.00 - 27.00	1.00	0.014	0.5
	34.70 - 37.30	2.60	0.025	0.9
	46.00 - 49.00	3.00	0.015	0.5
MR-116	45.50 - 46.50	1.00	0.014	0.5
	54.00 - 61.00	7.00	0.031	1.1
	64.00 - 72.00	8.00	0.031	1.1
	74.00 - 83.00	9.00	0.021	0.7
	91.00 - 92.00	1.00	0.01	0.4
	94.00 - 99.40	5.40	0.018	0.6
	101.60 - 102.80	1.20	0.042	1.4
	110.00 - 111.00	1.00	0.026	0.9
	123.00 - 126.10	3.10	0.023	0.8
MR-118	70.00 - 85.00	15.00	0.030	1.0
	(includes 77.00-78.00	1.00	0.148	5.1)
MR-121	22.00 - 38.00	16.00	0.039	1.3
	(includes 32.00-33.00	1.00	0.162	5.5)

Also, drilling has shown that the quartz-ankerite-illite (pyrite) alteration host has a broad arcuate geometry. Farther northeast, along the zone's trend, the alteration zones occur in more tightly folded rock. The zone is still open at depth to the south but the west property boundary is located as close as 25 metres to this recent drilling. The probable tonnage of the auriferous alteration zone has been increased by about 276,000 tons to bring the Road Zone total to slightly over one million tons.

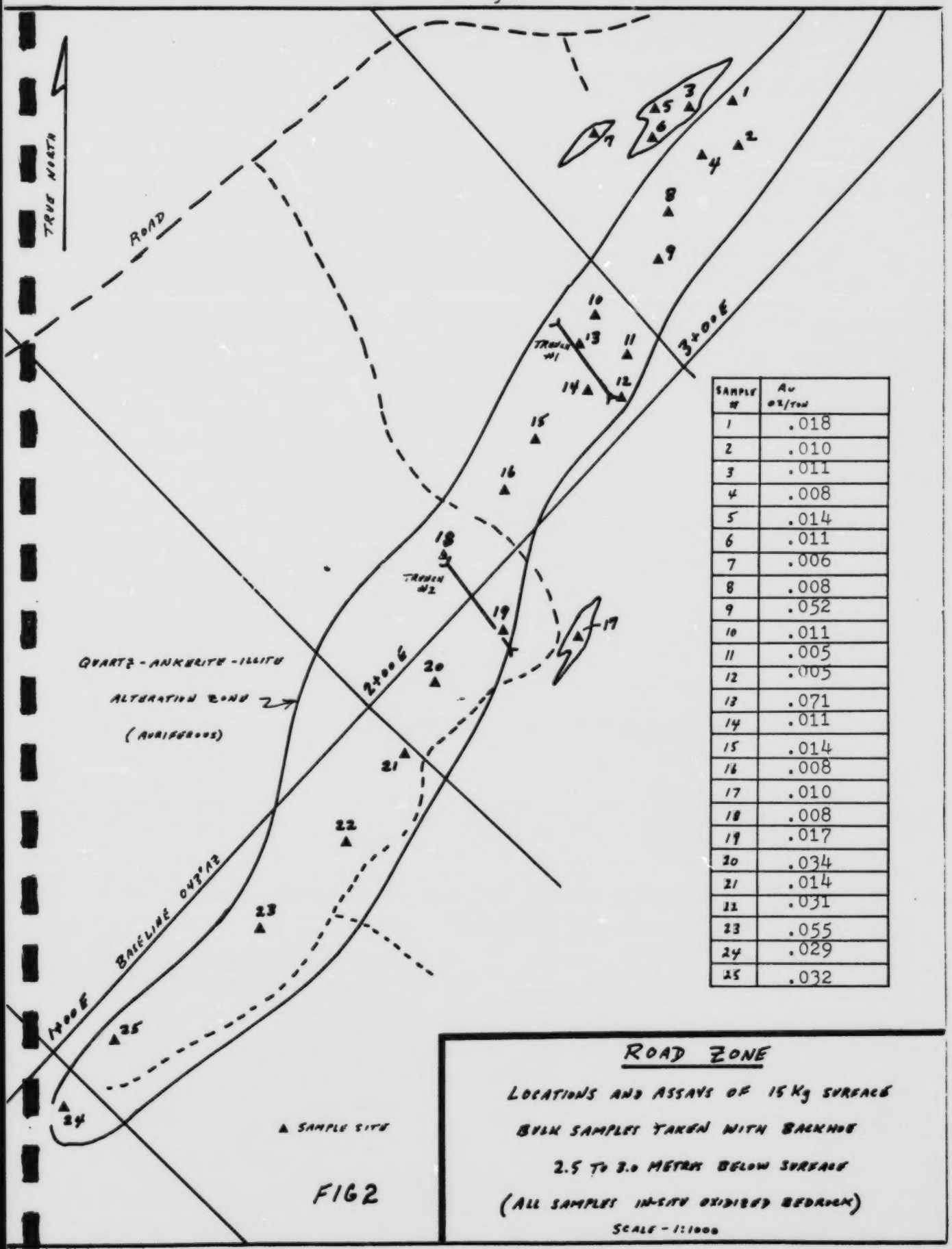
3.2 Surface Sampling Results and Discussion

The grades of the 25 bulk (15 kg) surface samples taken are tabulated on Figure 2. These results give an indication of the overall grade likely present in the surficial oxidized bedrock material. This type of random widely spaced sampling is not sufficiently detailed and thorough to establish an overall grade with a high degree of confidence. However, it does show the surficial material down to 2.5 or 3 m is likely to grade in the vicinity of .006 to .071 averaging perhaps .020 opt Au.

Further sampling of this material, taking larger samples closer together would have to be done to approximate the actual average grade more closely.

4.0 CONCLUSIONS AND RECOMMENDATIONS

1) It is concluded that a probable large tonnage, in excess of one million tons of auriferous quartz-ankerite-illite alteration has been outlined by



SAMPLE #	Au oz/ton
1	.018
2	.010
3	.011
4	.008
5	.014
6	.011
7	.006
8	.008
9	.052
10	.011
11	.005
12	.005
13	.071
14	.011
15	.014
16	.008
17	.010
18	.008
19	.017
20	.034
21	.014
11	.031
23	.055
24	.029
25	.032

ROAD ZONE

LOCATIONS AND ASSAYS OF 15 Kg SURFACE BULK SAMPLES TAKEN WITH BACKHOE 2.5 TO 3.0 METRES BELOW SURFACE (ALL SAMPLES IN-SITU OXIDIZED BEDROCK)

SCALE - 1:1000

FIG 2

drilling to date in the Road Zone, enlarging previously known reserves by about 276,000 tons.

2) The actual grade of the auriferous alteration zone outlined by the drilling will have to be determined by bulk testing.

3) The arithmetic average grade of 25 samples (15 kg each) of surficial oxidized (alteration zone) bedrock is .020 opt, which is interpreted only as a rough approximation of actual grade for surface material.

Recommendations

Bulk testing of the Road Zone, followed by in-fill drilling (if justified by bulk test samples) should be done by professional, experienced in developing low grade, open pit gold properties. A production feasibility study could then be undertaken.

5.0 ACKNOWLEDGMENTS

Mispec Resources wishes to express its appreciation to the Provincial and Federal Governments for their financial support. Specifically, Dr. Ruitenberg, Mr. Robert Harris and Sheila Watters have provided expert advise and guidance which have helped the project advance to the feasibility study stage. The efforts of others, closely involved, particularly Dean Thibault and George Sproule, are gratefully acknowledged.

6.0 REFERENCES

Davison, J.G. (1987) Mineralogical Investigation of Several Gold Bearing Ores (report by Witteck Development)

Godwin, C. (Dec., 1985) Qualifying Report for Gold Exploration on the Millican Lake Property of H. C. McNamara, Cape Spencer Area, N.B.

Lockhart, A.W. (1982) Cape Spencer Project - Preliminary Exploration, Saint John, N.B.

Ruitenberg, A.A. (Nov. 1985) Geology of Gold-Bearing Rocks Cape Spencer-Black River Area, N.B. (1" to 1/4 mile)

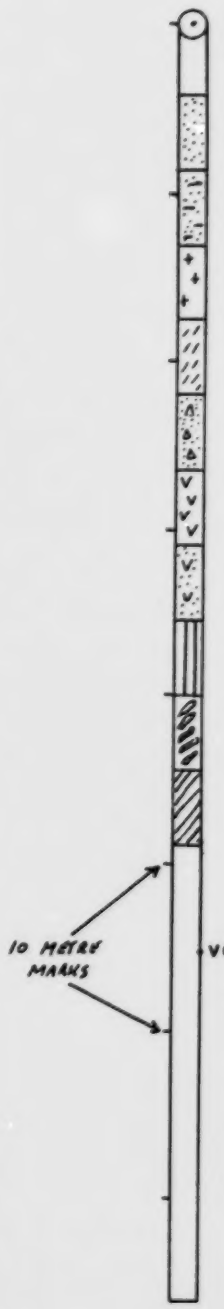
APPENDIX 1

DRILL LOGS and ASSAYS

HOLES MR-105 to MR-122

LEGEND FOR DDH SECTIONS (SCHEMATIC)

MR-1 to MR-122



COLLAR

overburden

purple shale, siltst, (minor gritstone + sgl "c")

grey - grey green siltst + shales

"arkose" and "gran-arkose"

qtz-CO_3-illite ± pyrite alteration zone (generally auriferous)

tuffaceous sediments

andesite

andesite tuffs

quartz vein

breccia - conglomerate (hematite mtx); (granite clast + C)

aplite dike

10 METRE MARKS

VG visible Gold in core

76.00 M - FINAL DEPTH OF HOLE IN METRES

FIG 3

LEGEND TO ACCOMPANY DRILL SECTIONS

LATITUDE 0+50 East

DEPARTURE 0+12 South

ELEVATION

DIP AT COLLAR Vertical

BEARING

TOTAL DEPTH 135.64 m CORE SIZE NQ

REMARKS Testing V. G. Zone

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Sheet No. 1

Project No. Road Zone Hole No. MR-105

Property Mispec Resources

NTS. 21 H/4W County St. John Parish Simonds

Date started Aug. 3, 1987 completed Aug 7/87

Contractor Longyear

Logged by Richard Mann

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
0.0 - 3.00	Overburden				
3.00 - 4.00	Andesite (Tuff?) - dark green - med. grained				
4.00 - 7.90	Granite ("Gran-Arkose" unit) - pink buff - coarse grained				
7.90 - 12.56	Andesite - dark green - medium to coarse grained, (tuff?) - sharp, finer grained bleached contacts suggest magnetic in spots, e.g. 8.31, 10.60; dusty disseminated magnetite - white qtz-calcite porphyroplasts common.			Trace specks cpy at 10.50m 11.07 m	
12.56 - 15.25	Granite (Gran-Arkose unit) - greenish-pink - mottled coarse texture				
15.25 - 26.00	Purple and purple-grey shales - purple to purplish-grey thin bedded shale. - abundant 1 to 2 mm wide concordant calcite veinlets, locally ptygmatically folded.	schist/ bedding 50-55°			
	Qtz-CO3-Illite Alteration Zone - intensely altered fine grained porous siltstone (altered to illite) shot through with qtz-CO3.	schistosity average 55°	Intense argillic alteration	1-2% pyrite as 1/2 mm euhedral crystals dissem. in illite	Core recovery approx. 98%, but very broken. Lost core sections: 30.00-31.00 - lost 25 m; 39.00-40.00 lost 55 m.

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No: Road Zone Sheet No: 2

Property: Mispec Resources

Hole No: MR-105

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
49.20 - 56.55	Purple Shales - fine grained, purple shales - reddish pink qtz-C03 veins in interval 53.20-55.50 m - very calcareous almost a dirty limestone at 52.10 to 52.50. - shale becomes altered after 56.00 to a bleached (sericitic) pink-buff color.	Schist bedding 60°		1-3% pyrite in altered shale at 57.30 associated with late Qtz-C03 pyrite-hem vein at 57.60 to 57.80.	Core badly broken in sections 53.00 to 55.50
56.55 - 59.55	Altered Reddish Polyimictic Pebble Conglomerate - polymictic - clasts (1 to 3 cm) elongated in plane nearly perpendicular to core axis. - minor qtz-CO_3 veining - reddish coloration due to abundant hematite.		Moderately sericitized matrix	Trace pyrite and specularite (up to 5% locally)	
59.55 - 60.05	Spotted Tuffaceous Siltstone - medium grained - greenish-grey - grades into a grey shale after 60.05	Foliation 70°	Weak chloritic		
60.05 - 71.16	Grey and Purple-Grey Shales - medium to fine grained - grey and purple beds - a few late QTZ-CO_3 (ankerite) veins 5 to 10 cm wide eg at 61.00, 61.50, 62.80, 63.25 to 63.40; 63.50; 63.70; 66.00; 67.10; 67.70; 68.30p 68.85 to 69.20; 69.50; 69.60; 70.20; 70.40 to 70.50.	Schistos. 70-75°			Badly broken core: 61.10 to 62.00 62.80 to 63.40 64.00 to 66.10 67.20 to 68.30 Note: lost 1 m of core from 64.00 to 66.00.

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No Road Zone Sheet No 3

Property Mispec Resources

Hole No MR-105

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
71.16 - 94.70	Quartz-CO_3 Alteration Zone - strongly altered siltstone shot through with late qtz-ankerite veining. - the altered sediment (illite) occasionally has up to 2% euhedral pyrite over a few cm. - quartz is vuggy in places, eg 89.00 to 89.20.		Intense argillic	Trace pyrite in illite sections occasional rare speck of cpy.	
94.70 - 101.30	Grey Hematitic Breccia - Conglomerate - elongated angular clasts in hematite (specularite) rich matrix - maroon grey - clasts generally 1 to 2 cm long - after 101.3, the breccia is altered to a light green color.	Layering 70-80°		5-10% specular hematite in matrix	
101.30 - 121.00	Quartz-CO_3 Alteration Zone - Qtz-ankerite veining shot through siltstone and conglomerate - light green illite peripheral to Qtz-CO_3 veins.		Intense argillic (illite)	Trace pyrite throughout with occassional 5 to 10 cm patches of up to 5% euhedral pyrite. Trace cpy	Note: lost 2.5 m core from 115.00 to 116.00
121.00 - 125.76	Light Green Altered Siltstone - medium to fine grained - light buff-green - short section of purple unaltered shale at 121.91 to 122.72.	Bedding 80-85°	Moderate to intense sericitic	Trace euhedral pyrite with up to 5% py over a few cm in a few sections.	
125.76 - 129.50	Altered Arkosic Gritstone - light buff-green - includes unaltered dark grey hematitic gritstone from 127.40 to 129.50	Foliation 70°	Mod. sericitic		

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No Road Zone Sheet No 4

Property Mispec Resources

Hole No MR-105

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
129.50 - 130.60	Granite + Shale Clast Conglomerate - altered, light pink-grey conglomerate with rounded 1 to 5 cm granite clasts and elongate shale clasts		Moderate sericitic		
130.60 - 135.64	Granite ("Gran-Arkose" unit) - pinkish buff - medium to coarse grained - red 1 mm hematitic spots - Common hairline to 1 mm wide qtz veinlets		Weak sericitic	Trace pyrite	
135.64	End of Hole				

Laboratory Loring Lab, Calgary

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No. Road Zone Sheet No. 1

Property Mispec Resources

Hole No. MR-105

* Coarse Gold Assays

Sample Number	Depth From	Depth To	Width		ASSAYS Opt Au							From	To	Width						
225	26.00	27.00	1.00		0.14															
226	27.00	28.00	1.00		0.018															
227	28.00	29.00	1.00		0.027	*														
228	29.00	30.00	1.00		0.006	*														
229	30.00	31.00	1.00		0.036	*														
230	31.00	32.00	1.00		0.031	*														
231	32.00	33.00	1.00		0.024	*														
232	33.00	34.00	1.00		0.050	*														
233	34.00	35.00	1.00		0.003	*														
234	35.00	36.00	1.00		0.002															
235	36.00	37.00	1.00		0.006															
236	37.00	38.00	1.00		0.024															
237	38.00	39.00	1.00		0.024															
238	39.00	40.00	1.00		0.026															
239	40.00	41.00	1.00		0.044															
240	41.00	42.00	1.000		0.016															
241	42.00	43.00	1.00		0.042															
242	43.00	44.00	1.00		0.076															

Calculations by: _____

Analyst: _____

Laboratory _____

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No. Road Zone Sheet No. 2

Property Mispec Resources

Hole No. MR-105

Sample Number	Depth		Width	ASSAYS							From	To	Width					
	From	To			Opt Au													
243	44.00	45.00	1.00		0.008													
244	45.00	46.00	1.00		0.024													
245	46.00	47.00	1.00		0.022													
246	47.00	48.00	1.00		0.012													
247	48.00	49.20	1.20		0.006													
253	53.20	54.20	1.00		0.022													
254	54.20	55.50	1.30		0.008													
255	56.30	57.00	0.70		0.036													
256	57.00	58.00	1.00		TR													
257	58.00	59.00	1.00		TR													
258	59.00	60.00	1.00		0.004													
259	61.00	62.00	1.00		0.002													
260	62.80	64.00	1.20		TR													

Calculations by: _____

Analyst: _____

Laboratory _____

MISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No. Road Zone Sheet No. 3

Property Mispec Resources

Hole No. MR-105

Sample Number	Depth From	Depth To	Width	ASSAYS							From	To	Width					
					optAu													
261	65.00	66.10	1.10		TR													
262	67.00	68.00	1.00		TR													
263	68.00	69.00	1.00		TR													
264	69.00	70.60	1.60		TR													
265	71.00	72.00	1.00		TR													
266	72.00	73.00	1.00		TR													
267	73.00	74.00	1.00		TR													
268	74.00	75.00	1.00		0.008													
269	75.00	76.00	1.00		0.004													
270	76.00	77.00	1.00		0.014													
271	77.00	78.00	1.00		0.006													
272	78.00	79.00	1.00		0.004													
273	79.00	80.00	1.00		0.008													
274	80.00	81.00	1.00		0.004													
275	81.00	82.00	1.00		0.006													
276	82.00	83.00	1.00		0.002													

Calculations by: _____

Analyst: _____

Laboratory _____

MISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No. Road Zone Sheet No. 4

Property Mispec Resources

Hole No. MR-105

Sample Number	Depth From	Depth To	Width	ASSAYS						Sample Number	From	To	Width					
					opt Au													
277	83.00	84.00	1.00		0.004													
278	84.00	85.00	1.00		TR													
279	85.00	86.00	1.00		TR													
280	86.00	87.00	1.00		0.004													
281	87.00	88.00	1.00		0.002													
282	88.00	89.00	1.00		0.012													
283	89.00	90.00	1.00		0.004													
284	90.00	91.00	1.00		TR													
285	91.00	92.00	1.00		TR													
286	92.00	93.00	1.00		0.004													
287	93.00	94.00	1.00		TR													
288	94.00	95.00	1.00		TR													
289	101.00	102.00	1.00		0.006													
290	102.00	103.00	1.00		TR													
291	103.00	104.00	1.00		0.012													
292	104.00	105.00	1.00		0.020													
293	105.00	106.00	1.00		0.010													

Calculations by: _____

Analyst: _____

Laboratory _____

MISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No. Road Zone Sheet No. 5

Property Mispec Resources

Hole No. MR-105

Sample Number	Depth From	Depth To	Width		ASSAYS Opt Au						From	To	Width					
294	106.00	107.00	1.00		0.012													
295	107.00	108.00	1.00		0.008													
296	108.00	109.00	1.00		TR													
297	109.00	110.00	1.00		TR													
298	110.00	111.00	1.00		TR													
299	111.00	112.00	1.00		0.008													
300	112.00	113.00	1.00		0.018													
301	113.00	114.00	1.00		TR													
302	114.00	115.00	1.00		0.012													
303	115.00	118.00	3.00		0.012		Note: 2.70 Meters lost core											
304	118.00	119.00	1.00		TR													
305	119.00	120.00	1.00		TR													
306	120.00	121.00	1.00		0.004													
307	121.00	121.90	0.90		TR													
308	122.80	124.00	1.20		TR													
309	124.00	125.00	1.00		TR													
310	125.00	126.00	1.00		0.010													

Calculations by: _____

Analyst: _____

LATITUDE 0+50 E

DEPARTURE 0+12 S

ELEVATION

DIP AT COLLAR -71°

BEARING 313° Az

TOTAL DEPTH 53.95 m CORE SIZE NQ

REMARKS

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Sheet No. 1

Project No. Road Zone Hole No. MR-106

Property

NTS 21 H/4W County ST. John Parish Simonds

Date started Aug. 9, 1987 completed Aug. 11, 1987

Contractor Longyear

Logged by R. F. Mann

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
0.0 - 3.66	Casing - no core recovery				
3.66 - 13.70	Granite "Gran-Arkose Unit" - Coarse grained, arkosic - light greenish-pink, mottled texture - includes short secton of light green-grey mafic tuff at 10.56 to 11.02.		Weak sericitic		
13.70 - 14.50	Altered Tuffaceous Section - greenish - medium grained - grades into a coarser arkosic rock at 14.20 to 14.50				
14.50 - 15.85	$Qtz\text{-}CO_3$ Illite Altered Section - light green altered (illite) pelitic seds shot through with $Qtz\text{-}CO_3$ veins nearly perpendicular to core axis.	80-85°	Strong sericite, illite		
15.85 - 25.67	Maroon and Grey Shales - medium to fine grained - maroon to purplish-grey - abundant concordant to semi-concordant $qtz\text{-}CO_3$ veinlets - short section (24.30 to 25.00) of altered shale peripheral to late $qtz\text{-}CO_3$ (ankerite) vein at 24.34 to 24.60.	schistosity 40°		up to 5% pyrite over 2 cm at 24.77 to 24.79.	
25.67 - 39.00	$Qtz\text{-}CO_3$ Illite Alteration Zone - medium to fine grained seds (altered to light green illite) shot through with $Qtz\text{-}CO_3$ veins.	schistosity 35-45°	Intense argillic (illite) alteration	Tr. pyrite with up to 3% py over several cm. Rare specks cpy.	

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No Road Zone Sheet No 2

Property Mispec Resources

Hole No MR-106

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
39.00 - 40.10	Greyish-Maroon Shale				
40.10 - 43.40	Qtz-CO_3 Illite Alteration Zone - Same as 25.67-39.00 above - red stained qtz-CO_3 (ankerite) veins at 43.00 to 43.40.	Foliation 40°	Intense sericitic	Trace pyrite	
43.40 - 43.90	Spotted Tuffaceous Siltstone - light greyish-pink to buff - 1 mm elongate chlorite and specularite clots oriented parallel with schistosity.	Foliation 45°			
43.90 -45.00	Purple Shales and Minor Tuffaceous Siltstone - thinly bedded fissile shales (purple) and minor tuffaceous siltstone interbedded	Beddigg 50°			
45.00 - 53.95	Tuffaceous Siltstone - similar to 43.40 to 43.90 above - includes short section of reddish stained polymictic pebble conglomerate at 48.00 to 49.15. - a few qtz-CO_3 veins (red stained) at 45.06-45.30; 51.00 to 51.10; 51.60-51.86; 52.65-52.85. - very minor maroon gritstone at 47.60 to 47.80 - minor purple shale at 52.00 to 52.20	Bedding 45-50°		Trace py in altered, red stained siltstone at 52.00	Lost 1.50 m core in section from 45.00 to 48.00 Fault Gouge at 47.00 M
53.95	End of Hole				

Laboratory Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No. Road Zone Sheet No. 1

Property Mispec Resources

Hole No. MR 106

Sample Number	Depth		Width	ASSAYS															
	From	To			Opt Au						From	To	Width						
324	14.00	15.00	1.00		TR														
325	15.00	16.00	1.00		0.008														
326	24.30	25.10	0.80		0.236														
327	25.10	26.50	1.40		TR														
328	26.50	27.50	1.00		0.008														
329	27.50	29.00	1.50		0.016														
330	29.00	30.00	1.00		0.016														
331	30.00	31.00	1.00		0.010														
332	31.00	32.00	1.00		0.008														
333	32.00	33.00	1.00		0.058														
334	33.00	34.00	1.00		0.006														
335	34.00	35.00	1.00		0.008														
336	35.00	36.00	1.00		0.044														
337	36.00	37.00	1.00		0.008														
338	37.00	38.00	1.00		0.026														
339	38.00	39.00	1.00		0.010														

Calculations by _____

Analyst _____

Laboratory: Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No.: Road Zone Sheet No.: 2

Property: Mispec Resources

Hole No.: MR-106

Sample Number	Depth From	Depth To	Width	ASSAYS							From	To	Width					
					opt Au			.											
340	40.00	41.00	1.00		0.012													
341	41.00	42.00	1.00		0.006													
342	42.00	43.00	1.00		0.020													
343	43.00	44.00	1.00		0.002													
344	45.00	45.30	0.30		0.002													
345	51.00	52.00	1.00		0.008													
346	52.00	53.10	1.10		TR													

Calculations by: _____

Analyst: _____

LATITUDE 0+25 E

DEPARTURE 0+10 S

ELEVATION

DIP AT COLLAR Vertical

BEARING

TOTAL DEPTH 145.53 CORE SIZE NQ

REMARKS Casing left in hole

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Sheet No. 1

Project No. Road Zone Hole No. MR-107

Property Mispec Resources

NTS 21 H/4W County St. John Parish Simonds

Date started Aug. 12, 1987 completed AUG 17, 1987

Contractor Longyear

Logged by R. F. Mann

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
0.0 - 4.00	Casing - no core recovery				
4.00 - 4.27	Granite (Gran-Arkose Unit) - pinkish light green, mottled - highly silicified		Silicified		
4.27 - 8.80	Andesite - dark green - medium grained - moderately calcareous - sharp chilled contact at 8.80 M		Chloritic calcareous	Trace pyrite and specularite	
8.80 - 21.73	Granite (Gran-Arkose Unit) - pinkish-green - coarse, mottled texture - no qtz veining		Strongly silicified	Minor trace of pyrite	
21.73 - 26.52	Andesite - dark green, medium to fine grained - fair unit of narrow (<1 mm) calcite veinlets		Calcareous chloritic		
26.52 - 27.50	Arkose (Gran-Arkose Unit) Same as (8.80 to 21.73 above) - Note: bottom .50 m of this unit has purplish hematitic hue due to purple shale intermixing. This suggests that the unit is arkose not granite.				Lost Core: Lost 1.30 m between 27.00 and 30.00 m.

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No Road Zone Sheet No 2

Property Mispec Resources

Hole No MR-107

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
27.50 - 36.27	Maroon and Maroon Grey Shales - fine grained, fissile shale - quartz and qtz-CO_3 veinlets common in some intervals: eg 31.60-32.10; 33.00 - 34.00.	Bedding.. schistosity 75-90°			Lost core: lost .60 m between 33.30-34.80 m.
36.27 - 60.10	Altered Qtz-CO_3 Illite Zone - fine grained sediments altered to illite - abundant qtz-ankerite veining shot through the host rock - short section of grey unaltered shale at 55.20 to 55.92. - a few short altered chloritic units (tuffs?) eg at 50.04-50.90; 52.65-53.00; 54.90-55.20; 55.93-56.40.	Foliation 55°-60°	Intense argillic (illite)	A few specks of visible gold in milky white qtz vein at 43.30 (gold is associated with grey metallic mineral, likely tetrahedrite) Also visible gold at 41.66 and 45.40. Grey metallic mineral (tetrahedrite, chalcocite?), sectile occurs at 36.83; 38.40, 39.39, 40.10, 42.71, 42.95, 43.30. Pyrite 1-2% euhedral cubes in short 1 to 4 cm wide illite sections marginal to quartz veins.	
60.10 - 62.70	Purplish Grey Shale and Siltstone - thin bedded - fine grained - 62.50 to 62.70 very calcareous.	60-65° schistosity bedding			

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No Road Zone Sheet No 3

Property Mispec Resources

Hole No MR-107

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
62.70 - 64.30	QTZ-CO_3-Illite Alteration Zone - a few large qtz-ankerite veins more or less conformable with bedding.			Trace pyrite - up to 1% locally over a few cm.	Fault Gouge at 64.10 to 64.20
64.30 - 68.80	Fissile Purple Shales - concordant 1/2 to 1 mm qtz-CO_3 veinlets throughout - short altered section at 69.30 to 69.50 marginal to vuggy qtz-CO_3 vein at 69.50 to 69.63	Foliation 80°-85°			
68.80 - 71.80	Altered Shale and Qtz-CO_3 Veining - shale altered to a spotted light green illite-sericite rich rock with several 10-15 cm wide qtz-CO_3 chlorite vuggy veins.	Foliation 50°	Intense argillic and sericitic Minor chlorite	nil	NOte: the ankerite in the qtz-CO_3 veins is dark brown, oxidized.
71.80 - 83.00	Grey and Purple Shales and Siltstone - grey and purple siltstone and shale - very fissile purple shale section from 75.50 to 78.00 - a few qtz-CO_3 chlorite vuggy veins 10 to 15 cm wide.	45-50°	Moderate sericitic		Note: Fault gouge at 74.50 and 77.50 to 78.05 Core badly broken from 74.00-83.50
83.00 - 132.00	Qtz-CO_3 Illite Zone - qtz-CO_3 shot through siltstones and porous gritstones altering them to illite rich rock - some qtz veins are very wide, eg. 97.05 to 98.82. - a few short sections of unaltered grey schistose gritstone at 100.50 to 101.30 and 102.10 to 102.90.	Foliation 45-50°	Intense argillic-sericite	Trace pyrite in green illite sections becomes more common after 103.00 with up to 2% over short intervals of 5-10 cm. Trace cpy at 101.53; 103.46 Minor tetrahedrite (chalcocite?) at 123.38; 123.57.	

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No: Road Zone Sheet No: 4

Property: Mispec Resources

Hole No: MR-107

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
132.00 - 139.30	Altered Grey-Green Gritstone-Siltstone - medium to coarse grained - light grey-green to mauve green - shoot unaltered section at 133.43-133.80 - qtz-CO_3 veining in intervals: 135.60 to 136.10 and 136.60-138.60.	Foliation 85°	Moderate to locally intense sericitic and argillic.	Trace pyrite at 136.40 m	
139.30 - 145.53	Granite and Shale Clast Conglomerate-Breccia - Abundant 1 to 4 cm rounded to sub-angular clasts of purple shale and granite in a moderately altered arkosic matrix. - reddish color from 139.30 to 143.20 then becomes a light green color.		Moderate sericitic		
145.53	End of Hole				

Laboratory Loring

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No Road Zone Sheet No. 1

Property Mispec Resources

Hole No. MR-107

* Coarse Gold Assays

Sample Number	Depth From	Depth To	Width	ASSAYS															
					Opt Au							From	To	Width					
401	36.30	37.00	0.70		0.016														
402	37.00	38.00	1.00		0.014														
403	38.00	39.00	1.00		0.049	*													
404	39.00	40.00	1.00		0.036	*													
405	40.00	41.00	1.00		0.022	*													
406	41.00	42.00	1.00		0.006	*													
407	42.00	43.00	1.00		0.039	*													
408	43.00	44.00	1.00		0.090	*													
409	44.00	45.00	1.00		0.020	*													
410	45.00	46.00	1.00		0.037	*													
411	46.00	47.00	1.00		0.110	*													
412	47.00	48.00	1.00		0.028	*													
413	48.00	49.00	1.00		0.079	*													
414	49.00	50.00	1.00		0.046														
415	50.00	51.00	1.00		0.002														
416	51.00	52.00	1.00		0.008														
417	52.00	53.00	1.00		0.002														
418	53.00	54.00	1.00		0.030														

Calculations by: _____

Analyst: _____

Laboratory Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No. Road Zone Sheet No. 2

Property Mispec Resources

Hole No. MR -107

Sample Number	Depth		Width	ASSAYS															
	From	To			Opt Au						From	To	Width						
419	54.00	55.00	1.00		0.040														
420	55.00	56.00	1.00		0.008														
421	56.00	57.00	1.00		0.046														
422	57.00	58.00	1.00		0.016														
423	58.00	59.00	1.00		TR														
424	59.00	60.10	1.10		0.008														
425	62.70	64.30	1.60		0.014														
426	68.80	70.00	1.20		0.010														
427	70.00	71.00	1.00		0.042														
428	71.00	72.00	1.00		0.002														
429	80.20	80.80	0.60		0.002														
430	83.00	84.00	1.00		0.012														
431	84.00	85.00	1.00		0.028														
432	85.00	86.00	1.00		0.010														
433	86.00	87.00	1.00		0.024														
434	87.00	88.00	1.00		0.010														

Calculations by: _____

Analyst: _____

Laboratory Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No. Road Zone Sheet No. 3

Property Mispec Resources

Hole No. MR-107

Sample Number	Depth		Width	ASSAYS															
	From	To			opt Au						From	To	Width						
435	88.00	89.00	1.00		0.006														
436	89.00	90.00	1.00		TR														
437	90.00	91.00	1.00		TR														
438	91.00	92.00	1.00		TR														
439	92.00	93.00	1.00		0.002														
440	93.00	94.00	1.00		TR														
441	94.00	95.00	1.00		TR														
442	95.00	96.00	1.00		TR														
443	96.00	97.00	1.00		TR														
444	97.00	98.00	1.00		TR														
445	98.00	99.00	1.00		0.012														
446	99.00	100.50	1.50		0.008														
447	100.50	101.40	0.90		0.004														
448	101.40	102.10	0.70		0.008														
449	102.10	103.00	0.90		TR														
450	103.00	104.00	1.00		0.006														
451	104.00	105.00	1.00		0.004														
452	105.00	106.00	1.00		0.018														

Calculations by: _____

Analyst: _____

Laboratory: Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No: Road Zone Sheet No: 4

Property: Mispec Resources

Hole No: MR-107

Sample Number	Depth		Width	ASSAYS															
	From	To			opt Au						From	To	Width						
453	106.00	107.00	1.00		0.006														
454	107.00	108.00	1.00		0.006														
455	108.00	109.00	1.00		0.004														
456	109.00	110.00	1.00		0.006														
457	110.00	111.00	1.00		0.008														
458	111.00	112.00	1.00		0.006														
459	112.00	113.00	1.00		0.018														
460	113.00	114.00	1.00		0.008														
461	114.00	115.00	1.00		0.010														
462	115.00	116.00	1.00		0.014														
463	116.00	117.00	1.00		0.008														
464	117.00	118.00	1.00		0.010														
465	118.00	119.00	1.00		0.006														
466	119.00	120.00	1.00		0.018														
467	120.00	121.00	1.00		0.024														
468	121.00	122.00	1.00		0.012														
469	122.00	123.00	1.00		0.002														
470	123.00	124.00	1.00		0.035														

Calculations by: _____

Analyst: _____

Laboratory Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No Road Zone Sheet No. 5

Property Mispec Resources

Hole No MR-107

Sample Number	Depth		Width	ASSAYS														
	From	To			opt Au						From	To	Width					
471	124.00	125.00	1.00		0.012													
472	125.00	126.00	1.00		0.022													
473	126.00	127.00	1.00		0.022													
474	127.00	128.00	1.00		0.006													
475	128.00	129.00	1.00		0.008													
476	129.00	130.00	1.00		0.001													
477	130.00	131.00	1.00		0.010													
478	131.00	132.00	1.00		0.006													
479	132.00	133.00	1.00		0.008													
480	133.00	134.00	1.00		TR													
481	135.60	137.00	1.40		0.004													
482	137.00	138.00	1.00		TR													
483	138.00	139.30	1.30		TR													

Calculations by: _____

Analyst: _____

Laboratory: Custom Labs - Bathurst

Sludges

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No. _____ Sheet No. 6

Property: Mispec Resources

Hole No. MR-107

Sample Number	Depth From	Depth To	Width	ASSAYS							From	To	Width					
					opt. Au													
Footage Interval	Metres	Metres																
146-156	44.50	47.55	3.05		0.096													
156-187	47.55	57.00	9.45		0.050													
187-207	57.00	63.10	6.10		0.049													
327-337	99.67	102.72	3.05		ND													
337-347	102.72	105.77	3.05		0.003													
387-397	117.96	121.00	3.05		0.012													
397-407	121.00	124.05	3.05		0.019													

Calculations by: _____

Analyst: _____

LATITUDE 0+25 E

DEPARTURE 0+10 S

ELEVATION

DIP AT COLLAR - 70°

BEARING 313° Az

TOTAL DEPTH 69.19 m CORE SIZE NQ

REMARKS Collar is located 25 m from Gordex Boundary

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Sheet No. 1

Project No. Road Zone Hole No. MR-108

Property Mispec Resources

NTS. 21 H/4W County St. John Parish Simonds

Date started Aug 18, 1987 completed Aug. 20 1987

Contractor Longyear

Logged by R. F. Mann

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
0.0 - 3.00	Casing - no core recovery				
3.00 - 3.66	Granite ("Gran-Arkose" unit) - coarse - pinkish to light green - possibly a boulder				
3.66 - 12.80	Andesite - dark green - fine grained, massive - very highly calcareous and common 1/2 to 1 mm calcite veinlets - sharp contact at 12.80 is bleached and fine grained.		Chloritic Carbonatized		
12.80 - 19.80	Granite "Gran-Arkose" Unit - coarse grained, very hard - generally pinkish to light green		Weak to moderate pervasive sericite - silicified	Trace pyrite	
19.80 - 22.44	Andesite Same as 3.66 to 12.80 above				
22.44 - 24.90	Granite (Gran-Arkose unit) - same granitic looking arkose unit as 12.80 to 19.80 above except this section is darker green (ie more chlorite) and moderately calcareous.		moderate sericitic and carbonatized		
22.90 - 27.60	Andesite Same as 3.66 to 12.80 above; - appears to grade into a maroon arkosic gritstone and shale after 27.60.				

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No Road Zone Sheet No 2

Property Mispec Resources

Hole No MR-108

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
27.60 - 39.40	Maroon and Grey Shale and Siltstone - predominantly medium to fine grained shale and siltstone (minor gritstone) - mostly maroon to light grey color - fair amount of small (1mm) qtz-CO_3 veinlets.	schistosity 45-50°			
39.40 - 55.20	Qtz-CO_3 - Illite Altered Zone - medium grained shales and siltstone shot through with qtz-CO_3 (ankerite) veining. - a few short sections are relatively unaltered (grey impervious shaly units) eg 47.70-47.98 and 58.52 to 48.60. - after 52.30m the rock becomes very hematitic (rusty red-brown) and then very badly broken (Fault Gouge) after 53.00 m.	40-45°	Intense sericitic and argillic	Speck of visible gold at 44.35 M Trace pyrite with up to 2% over a few cm in short illite sections.	Hematitic -Fault Gouge at 52.90-53.10 with core badly broken from here to end of hole.
55.20 - 69.19	Maroon and Grey Shale and Tuffaceous Siltstone - fissile purple shales interlayered with spotted grey-green tuffaceous looking altered siltstone. - fair amt of qtz-CO_3-chlorite veining, eg: 58.80-58.90; 59.33-59.43; 59.55-59.72 60.32-60.85; 61.10-61.30; 61.83-61.98; 62.50-62.60; 65.90-66.10.	fissile 45-50°			Note: interval of sand at 66.14 to 66.70 Lost core from 54.00 to 57.00; lost 1.70 m from 58.00 to 59.00 lost .60 m from 61.00 to 67.00 lost 3.20 m.
69.19	End of Hole				

Laboratory Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No. Road Zone Sheet No. 1

Property Mispec Resources

Hole No. MR 108

Sample Number	Depth From	Depth To	Width	ASSAYS							From	To	Width					
					opt Au													
347	38.90	40.00	1.10		TR													
348	40.00	41.00	1.00		TR													
349	41.00	42.00	1.00		0.013													
350	42.00	43.00	1.00		0.005													
351	43.00	44.00	1.00		0.010													
352	44.00	45.00	1.00		0.041													
353	45.00	46.00	1.00		0.002													
354	46.00	47.00	1.00		0.033													
355	47.00	48.00	1.00		TR													
356	48.00	49.00	1.00		0.020													
357	49;00	50.00	1.00		0.022													
358	50.00	51.00	1.00		0.044													
359	51.00	52.00	1.00		0.054													
360	52.00	53.10	1.10		0.058													
361	53.10	54.00	0.90		TR													
362	54.00	55.20	1.20		TR													

Calculations by _____

Analyst: _____

Laboratory _____

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No. Road Zone Sheet No. 2

Property Mispec Resources

Hole No. MR-108

Sample Number	Depth		Width	ASSAYS															
	From	To				opt Au					From	To	Width						
363	58.90	60.00	1.10			0.004													
364	60.00	61.00	1.00			0.008													
365	61.00	63.00	2.00			TR													

Calculations by _____

Analyst _____

LATITUDE 0+25 E

DEPARTURE 0+18 S

ELEVATION

DIP AT COLLAR Vertical

BEARING

TOTAL DEPTH 70.71 m CORE SIZE NQ

REMARKS Hole MR-109 drilled near MR-107 because of poor core (grinding) in hole 107

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Sheet No. 1

Project No. Road Zone Hole No. MR-109

Property Mispec Resources

NTS 21 H/4W County St. John Parish Simonds

Date started Augu1987 completed Aug 22/87

Contractor Longyear

Logged by R. F. Mann

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
0.0 - 2.00	Casing - no core recovery				Note: Hole MR-109 purpose is to get better quality core from the upper qtz-CO_3 zone. Most of this section was badly ground in Hole MR-107.
2.00 - 5.52	Granite ("Gran Arkose Unit") - pink to pinkish green - coarse grained				
5.52 - 8.90	Andesite Sill - dark green - massive, medium grained, uniform texture - sharp, chilled contacts suggest intrusive.				
8.90 - 18.00	Granite ("Gran-Arkose Unit") Same as 2.00 to 5.52 above	Vague foliation 30°			
18.00 - 21.25	Andesite Sill - same as 5.52 to 8.90 above except that this section has a lot of hairline and wispy calcite veinlets and is very calcareous.		Carbonatized.		
21.25 - 24.36	Granite ("Gran-Arkose unit") Same as 8.90 to 18.00		Slight sericitic		
24.36 - 29.87	Andesite Sill - massive, dark green calcareous - vague calcite spots - chilled sharp contacts suggests intrusive origin - same as 18.00 to 21.25.		Carbonatized.		

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No Road Zone Sheet No 2

Property Mispec

Hole No MR-109

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
29.87 - 31.50	Arkose (Gran-Arkose Unit) - red hematite spots in light pinkish green altered arkose - this unit grades very quickly into the purple shale unit (which clearly shows the arkosic nature of the rock)	Foliation 60-65° 31.50 m	Moderate sericitic		
31.50 - 39.75	Purple and Purple-Grey Shale and Siltstone - thin bedded maroon shale and siltstone - fair amount of concordant and near concordant qtz-CO_3 veinlets, locally ptygmatically folded.	schistosity average 50°			
39.75 - 69.60	Qtz-CO_3 - Illite Alteration Zone - shale and siltstones are altered to light green illite by qtz-CO_3 (ankerite) veining shot throughout. - short section of unaltered purple shale at 63.00 to 64.70 m.		Intense argillic (illite)	1% pyrite average Concentrated as euhedral crystals in the illite sections marginal to the qtz-CO_3 veining.	core recovery 99%
69.60 - 70.71	Purple Shale Similar to section 31.50 to 39.75 except with far less qtz-CO_3 veinlets	Schistosity 45°			
70.71	End of Hole				

Laboratory Loring

* Coarse Gold Assay

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No Road Zone Sheet No 1

Property Mispec

Hole No. MR-109

Sample Number	Depth From	Depth To	Width	ASSAYS							From	To	Width					
					opt Au													
366	39.00	41.00	1.20		0.032													
367	41.00	42.00	1.00		0.052	*												
368	42.00	43.00	1.00		0.008	*												
369	43.00	44.00	1.00		0.104	*												
370	44.00	45.00	1.00		0.039	*												
371	45.00	46.00	1.00		0.013	*												
372	46.00	47.00	1.00		0.014	*												
373	47.00	48.00	1.00		0.023	*												
374	48.00	49.00	1.00		0.022													
375	49.00	50.00	1.00		0.024													
376	50.00	51.00	1.00		0.034													
377	51.00	52.00	1.00		0.074													
378	52.00	53.00	1.00		0.010													
379	53.00	54.00	1.00		0.020													
380	54.00	55.00	1.00		0.016													
381	55.00	56.00	1.00		0.022													
382	56.00	57.00	1.00		0.026													
383	57.00	58.00	1.00		0.044													

Calculations by: _____

Analyst: _____

Laboratory: Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No. Road Zone Sheet No. 2

Property: Mispec

Hole No. MR-109

Sample Number	Depth From	Depth To	Width	ASSAYS							From	To	Width					
					Opt Au													
384	58.00	59.00	1.00		0.010													
385	59.00	60.00	1.00		0.006													
386	60.00	61.00	1.00		0.028													
387	61.00	62.00	1.00		0.012													
388	62.00	63.00	1.00		0.004													
389	63.00	64.70	1.70		TR													
390	64.70	66.00	1.30		0.008													
391	66.00	67.00	1.00		0.050													
392	67.00	68.00	1.00		0.006													
393	68.00	69.60	1.60		0.050													

Calculations by: _____

Analyst: _____

LATITUDE 2+34 E

DEPARTURE 0+26N

ELEVATION

DIP AT COLLAR Vertical (near hole MR-8)

BEARING

TOTAL DEPTH 60.05 CORE SIZE NQ

REMARKS

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Sheet No. 1

Project No. Road Zone Hole No. MR-110

Property Mispec

NTS 21 H/4W County St. John Parish Simonds

Date started Aug 8, 1987 completed Aug. 10, 1987

Contractor Longyear

Logged by R.F.M.

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
0.0 - 3.00	Casing - no core recovery				
3.00 - 4.30	Greyish Purple Shale - weakly altered - fine grained, fissile	Schistosity 80-85°	Weak sericitic		
4.30 - 7.50	Light Green Altered Siltstone and Shale - light green - fine grained - minor qtz-ankerite veining	Schistosity variable 45-65°	Moderate to intense sericitic and argillic	Trace cpy at 6.00 m	
7.50 - 10.44	Purple and Purple-Grey Shale - fine grained - dark purple-purple grey - minor late qtz-CO_3 veins a few cm wide	Schistosity bedding 65-75°			
10.41 - 37.70	Qtz-CO_3 - Illite Alteration Zone - light green, fine grained pelitic sediment (altered to illite) shot through with qtz-CO_3 (ankerite) veining. - a few short sections of only weakly altered conglomerate - gritstone, eg. 26.50 to 27.10; 28.80 to 29.10; 31.50 to 33.30.		Intense sericitic and argillic	Trace pyrite throughout - occurs as euhedral crystals in the illite. Up 3% pyrite over a few cm in places; trace cpy in places eg at 15.80.	
37.70 - 42.10	Grey Hematitic Conglomerate Breccia - light grey weakly altered hematite rich breccia conglomerate - occasional qtz-CO_3 veins 1 to 5 cm wide but within alteration halo. - intense local isoclinal folding.	Schistosity variable 70-75°	Weak sericite	Trace tetrahedrite at 23.20.	

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No Road Zone Sheet No 2

Property Mispec

Hole No MR-110

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
42.10 - 56.10	Qtz-CO_3 Alteration Zone - predominantly altered conglomerate breccia with several late Qtz-CO_3 veins 10 to 20 cm wide. - relatively unaltered sections of conglomerate breccia at 46.30 to 46.57 and 48.90 to 51.05.	schistosity bedding 80-85°	Weak to moderate sericitic	Trace pyrite with up to 3% over a few cm eg. at 44.70, 44.95, 45.20, 45.40 Speck of visible gold at 51.90 with trace amounts of tetrahedrite and cpy Trace cpy at 54.70, 54.93, 55.37. Trace tetrahedrite at 54.84.	
56.10 - 60.05	Maroon-Grey Conglomerate-Breccia - maroon grey, hematite rich - angular to subangular polymictic clasts 1/4 to 1 cm elongated in bedding-schistosity.	schistosity 80-85°			
60.05	End of Hole				

Laboratory Loring

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No. Road Zone Sheet No. 1

Property Mispec

Hole No. MR-110

*Coarse Gold Assay

Sample Number	Depth From	Depth To	Width	ASSAYS							From	To	Width					
484	4.00	5.00	1.00		0.038													
485	5.00	6.00	1.00		0.002													
486	6.00	7.60	1.60		TR													
487	7.60	10.40	2.80		TR													
488	10.40	12.00	1.60		0.022													
489	12.00	13.00	1.00		0.082													
490	13.00	14.00	1.00		0.032													
491	14.00	15.00	1.00		0.014													
492	15.00	16.00	1.00		0.022													
493	16.00	17.00	1.00		0.012													
494	17.00	18.00	1.00		TR													
495	18.00	19.00	1.00		TR													
496	19.00	20.00	1.00		0.012													
497	20.00	21.00	1.00		0.004													
498	21.00	22.00	1.00		0.002	*												
499	22.00	23.00	1.00		0.002	*												
500	23.00	24.00	1.00		0.003	*												
501	24.00	25.00	1.00		0.008	*												

Calculations by: _____

Analyst: _____

Laboratory Loring lab

* Coarse Gold Assay

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No Road Zone Sheet No. 2

Property Mispec

Hole No. MR - 110

Sample Number	Depth From	Depth To	Width	ASSAYS							From	To	Width					
					opt Au													
502	25.00	26.50	1.50		0.008													
503	26.50	27.10	0.60		0.002													
504	27.10	28.00	0.90		0.004													
505	28.00	29.00	1.00		0.008													
506	29.00	30.00	1.00		0.004													
507	30.00	31.50	1.50		0.004													
508	31.50	33.30	1.80		0.010													
509	33.30	34.00	0.70		0.012													
510	34.00	35.00	1.00		0.004													
511	35.00	36.00	1.00		TR													
512	36.00	37.00	1.00		0.004													
513	37.00	38.30	1.30		0.004													
514	38.30	39.30	1.00		0.002													
515	39.30	41.00	1.70		0.002													
516	41.00	42.00	1.00		0.002													
517	42.00	43.00	1.00		0.036													
518	43.00	44.00	1.00		0.002													
519	44.00	45.00	1.00		0.015	*												

Calculations by: _____

Analyst _____

Laboratory Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No. Road Zone Sheet No. 3

Property Mispec

Hole No. MR-110

* Coarse Gold Assay

Sample Number	Depth			ASSAYS															
	From	To	Width		opt Au							From	To	Width					
520	45.00	46.00	1.00		0.020	*													
521	46.00	47.00	1.00		0.007	*													
522	47.00	48.00	1.00		0.003	*													
523	48.00	49.00	1.00		0.004	*													
524	49.00	51.00	2.00		0.003	*													
525	51.00	52.00	1.00		0.029	*													
526	52.00	53.00	1.00		0.038	*													
527	53.00	54.00	1.00		0.025	*													
528	54.00	55.00	1.00		0.007	*													
529	55.00	56.10	1.10		0.004														

Calculations by: _____

Analyst: _____

LATITUDE 2+40E

DEPARTURE 0+71N

ELEVATION

DIP AT COLLAR -70°

BEARING 133°

TOTAL DEPTH 58.28 CORE SIZE NQ

REMARKS

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Sheet No. 1

Project No. Road Zone Hole No. MR-111

Property Mispec

NTS. 21 H/4W County St. John Parish Simonds

Date started Aug 10, 1987 completed Aug. 11, 1987

Contractor Long year

Logged by R. Mann

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
0.0 - 3.00	Casing - no core recovery				
3.00 - 21.18	Maroon Shale and Siltstone - medium to fine grained shales and siltstone - fissile, thinly bedded - a few late qtz-CO_3 veins 10 to 12 cm wide eg at 5.75-5.90; 16.65-16.79; 18.60 to 18.82 (down hole cementy rock altered to 19.15) 19.90 to 20.01; 20.12 to 20.47.	Bedding schistosity 80-85°			Core badly broken at 3.00-18.50
21.18 - 21.70	Altered Polymictic Pebble Conglomerate - elongate mixed clasts 1/2 to 2 cm long in moderately sericitized matrix.	Bedding foliation 75-80°	Moderate sericitic		
21.70 - 24.00	Altered (Tuffaceous?) Siltstone - spotted pelitic and possibly tuffaceous siltstone with common erratic qtz-CO_3 veinlets 1/2 to 1 cm wide carrying splashes of cpy and bornite.	Average 60°	Intense sericitic and chloritic	Chalcopyrite and bornite total up to 1-2% average throughout occurs as irregular patches and hairline veinlets.	
24.00 - 28.45	Maroon Shale with Qtz-CO_3-Chlorite Veins - purple shale corsscut by several qtz-ankerite-chlorite veins (some vuggy qtz) which are generally 2 to 10 cm wide with only local or nonexistent alteration halos. - wider qtz-CO_3 chlorite vein at 27.50-28.00.	75-80° schistosity			

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No: Road Zone Sheet No: 2

Property: Mispec

Hole No: MR-111

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
28.45 - 34.91	Maroon and Maroon Grey Siltstone and Shale - medium grained light maroon grey siltstone and thin fissile shale beds. - monotonous with only the occasional late 1 mm qtz-CO_3 veinlets.	70-75°			
34.91- 37.40	Qtz-CO_3 Altered Zone - predominantly qtz-CO_3 (+illite) vuggy veins. - Country rock on each contact (34.91 and 37.40) is only slightly altered.		Moderate argillic alteration	Trace cpy at 35.40 Minor specularite	
37.40 - 42.40	Maroon Siltstone and Gritstone - maroon silty unit becomes gradually coarser grading into a schistose polymictic pebble conglomerate at 42.40m	Bedding 85°			
42.40 - 46.60	Pebble Breccia Conglomerate (Maroon?) - elongate (tectonic) sheared shale frags (predominantly) in sandy gritstone matrix.				
46.60 - 68.28	Grey to Maroon Grey Siltstone, Sandstone and Breccia (tetonic) Conglomerate - light grey to maroon grey - coarser pebble breccia conglomerate section as follows: 57.45-58.10; 60.10-61.70; 62.65-63.70; 65.50-66.40; 67.60-68.10.	Bedding 50°-55°			
68.28	End of Hole				

Laboratory Loring

KISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No Road Zone Sheet No. 1

Property Mispec

Hole No. MR-111

Note: (Coarse Gold Assays)

Sample Number	Depth From	Depth To	Width	ASSAYS							From	To	Width					
					opt Au													
312	18.50	19.20	0.70		0.001													
313	19.80	20.50	0.70		TR													
314	20.50	21.50	1.00		TR													
315	21.50	22.00	0.50		0.001													
316	22.00	22.50	0.50		TR													
317	22.50	23.00	0.50		TR													
318	23.00	23.50	0.50		0.002													
319	23.50	24.00	0.50		0.002													
320	25.00	26.30	1.30		0.001													
321	27.50	28.50	1.00		0.002													
322	34.90	36.00	1.10		0.004													
323	36.00	37.40	1.40		0.002													

Calculations by: _____

Analyst _____

LATITUDE 1+25 E

DEPARTURE 0+40 S

ELEVATION

DIP AT COLLAR Vertical

BEARING

TOTAL DEPTH 75.29 m CORE SIZE NQ

REMARKS

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Sheet No. 1

Project No. Road Zone Hole No. MR-112

Property Mispec

NTS 21 H/4W County St. John Parish Simonds

Date started Aug. 13, 1987 completed Aug. 15, 1987

Contractor Longyear

Logged by R. F. Mann

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
0.0 - 3.00	Casing - no core recovery				
3.00 - 8.10	Conglomerate - rounded to subangular polymictic clasts 1 to 2 cm across - dark purplish hue due to hematitic matrix		Moderate to locally intense sericitic		Core badly broken from 3.00 to 18.30
8.10 -16.40	Purple Shale - fissile, purple shales - 1-2 mm wide pink qtz-CO_3 veins, nearly concordant with schistosity - a few quartz veins with irregular patches of CO_3 and minor chlorite and specularite eg at 8.20-8.80; 10.10-10.70.	Schistos. 75-85°			
16.40 - 28.50	Qtz-CO_3 Alteration Zone - red stained, qtz ankerite veins shot through shales which have been altered to illite-sericite - large qtz + CO_3 section from 20.00 to 21.90 and 22.10 to 23.15.	Schistos. 85°	Intense sericite and argillic-illite	Trace euhedral pyrite eg. 26.50 to 27.00m	
28.50 - 31.00	Purple and Grey Shale - minor qtz-Co_3 veinlets more or less concordant with schistosity	Schistos. 85°			
31.00 - 32.52	Purple Conglomerate - same as 3.00 to 8.10	70° Bedding			
32.52 - 34.70	Purple Shale - fissile - same as 8.10 to 16.40 above	45-50°			

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No Road Zone Sheet No 2

Property Mispec

Hole No MR-112

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
34.70 - 54.40	Qtz-CO_3 Illite Alteration Zone - qtz-ankerite veining shot through shales and siltstones which are altered to light green, illite rich rock. - relatively unaltered maroon shale sections at 37.27 to 38.20 and 42.00 to 42.24 - chloritic spotted sed at 54.00 to 54.40 - hematitic fault gouge at 53.50 to 53.70	Foliation 70-75°	Intense argillic	Trace pyrite throughout with up to 2% over a few cm in some illite sections	Core badly broken in interval 49.40 to 54.00 Lost 2.00 m core in section from 49.40 to 52.40
54.40 - 59.60	Fissile Maroon-Grey Shales - light grey-maroon color - thinly bedded - occasional late qtz-CO_3-chlorite veins 2-10 cm wide, more or less concordant with schistosity - but host rock is not altered, eg at 55.82 to 55.92; 58.19-58.44	schistosity 75-85°	Weak sericitic and chlorite		
59.60 - 63.08	Altered Chloritic Shales - fine grained - thinly bedded - light greenish (chlorite) - 2 to 5 cm wide qtz-ankerite (rusty) veins, generally concordant with foliation occur throughout the section, about 10 to 15 cm apart. - short section of altered pebble conglomerate at 59.85 to 60.25.	70-75°	Moderate sericitic, argillic		Fault Gouge at 60.40 and 60.73
63.08 - 70.50	Maroon Grey Shale and Siltstone - grey-maroon - medium to fine grained - short conglomeratic section at 64.74 to 65.06; 65.25 to 65.30; 66.63 to 66.77. - a few late vuggy qtz-CO_3 (rusty), 2 to 5 cm wide veins, nearly concordant with foliation, eg at 64.60; 65.87, 67.43, 69.06.	Bedding foliation 85-90°			

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No Road Zone Sheet No 3

Property Mispec

Hole No MR-112

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
70.50 - 75.29	Altered Shale - Similar to section 59.60 to 63.08 above except with fewer qtz-CO_3 veins.	Foliation 80-85°	Moderate to locally intense argillic (illite) and sericitic chloritic		
75.29	End of Hole				

Laboratory: Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No: Road Zone Sheet No: 1

Property: Mispec

Hole No: MR-112

Sample Number	Depth From	Depth To	Width	ASSAYS							From	To	Width					
					Opt Au													
530	8.00	9.00	1.00		TR													
531	9.00	10.00	1.00		TR													
532	10.00	10.80	0.80		TR													
533	16.40	17.00	0.60		0.006													
534	17.00	18.00	1.00		0.006													
535	18.00	20.00	2.00		0.004													
536	20.00	21.00	1.00		0.006													
537	21.00	22.00	1.00		0.004													
538	22.00	23.00	1.00		0.002													
539	23.00	24.00	1.00		0.006													
540	24.00	25.00	1.00		0.004													
541	25.00	26.00	1.00		0.004													
542	26.00	27.00	1.00		0.014													
543	27.00	28.50	1.50		0.006													
544	34.70	36.00	1.30		0.034													
545	36.00	37.30	1.30		0.016													
546	37.30	38.20	0.90		0.002													

Calculations by: _____

Analyst: _____

Laboratory Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No Road Zone Sheet No 2

Property Mispec

Hole No MR-112

Sample Number	Depth From	Depth To	Width	ASSAYS	opt Au						From	To	Width					
547	38.20	39.00	0.80		TR													
548	39.00	40.00	1.00		0.004													
549	40.00	41.00	1.00		0.004													
550	41.00	42.00	1.00		0.008													
551	42.00	43.00	1.00		TR													
552	43.00	44.00	1.00		0.008													
553	44.00	45.00	1.00		0.006													
554	45.00	46.00	1.00		TR													
555	46.00	47.00	1.00		0.032													
556	47.00	48.00	1.00		0.002													
557	48.00	49.00	1.00		0.012													
558	49.00	50.00	1.00		0.004													
559	50.00	52.40	2.40		0.002		LOST CORE 1.50 METRES											
560	52.40	53.40	1.00		0.004													
561	53.40	54.40	1.00		0.006													
562	59.60	60.40	0.80		TR													
563	60.40	62.00	1.60		0.004													

Calculations by _____

Analyst _____

Laboratory _____

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No. Road Zone Sheet No. 3

Property Mispec

Hole No. MR-112

Sample Number	Depth From	Depth To	Width	ASSAYS							From	To	Width					
					opt Au													
564	62.00	63.10	1.10		0.004													
565	66.80	67.70	0.90		TR													
566	70.00	70.70	0.70		0.002													
567	70.70	72.00	1.30		0.004													
568	72.00	73.00	1.00		0.002													
569	73.00	74.00	1.00		0.004													
570	74.00	75.29	1.29		TR													

Calculations by _____

Analyst _____

LATITUDE 1+75 East

DEPARTURE 0+80 South

ELEVATION

DIP AT COLLAR Vertical

BEARING

TOTAL DEPTH 47.85 m CORE SIZE NQ

REMARKS

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Sheet No. 1

Project No Road Zone Hole No. MR-113

Property Mispec

NTS 21 H/4W County St. John Parish Simonds

Date started Aug. 16, 1987 completed Aug. 17, 1987

Contractor Longyear

Logged by R. F. Mann

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
0.0 - 2.50	Casing - no core recovery				
2.50 - 17.56	Altered Tuffs and Tuffaceous Siltstone - medium to fine grained andesitic tuff - light green - nearly massive in places - a few short thin bedded mudstone intervals eg at 9.35 to 10.40 - subhedral to euhedral feldspar porphyroblasts (1 mm crystals) in places, eg. at 14.50 - a few short 5 to 8 cm wide qtz-CO_3 veins at 6.56, 8.00, 9.00, 9.53, 11.00, 17.13, 17.50.	Foliation bedding 80-90°	Moderate sericitic and chloritic		
17.56 - 44.80	Hematitic Purple Shale and Siltstone - dark purple to purplish-grey hematitic siltstone and shales. - minor greenish altered (sericitic) sections of tuffaceous siltstone or mudstone, eg. at 18.10-19.03; 32.60-32.80, 33.50-33.90, - a few qtz-CO_3 veins, eg at 27.90-29.90 - occasional late 1 mm wide qtz-CO_3 veinlets generally semi-concordant with schistosity but occasionally ptygmatically folded, eg. at 38.90-39.00.	Schistosity 80-85°			Lost Core: lost 1.50 m from 34.00 to 35.75

60

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No Road Zone Sheet No 2

Property Mispec

Hole No MR-113

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
44.80 - 47.85	Altered Tuff and Tuffaceous Siltstone - Same as 2.50 to 17.56 above Note: 1/2 mm subhedral feldspar phenocrysts at 47.87			Trace cpy at 47.84 Grey sectile metallic mineral (tetrahedrite or chalcocite) at 45.74 to 46.00 as tiny patches and veinlets.	
47.85	End of Hole				

Laboratory LORING

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No Road Zone Sheet No 1

Property Mispec

Hole No MR-113

Sample Number	Depth From	Depth To	Width	ASSAYS							From	To	Width					
					opt Au													
571	8.90	10.00	1.10		0.004													
572	10.00	11.10	1.10		TR													
573	45.60	46.10	0.50		TR													
574	47.10	47.40	0.30		TR													

Calculations by _____

Analyst _____

62

LATITUDE Line 1+00 East

DEPARTURE 2+00 South

ELEVATION

DIP AT COLLAR Vertical

BEARING

TOTAL DEPTH 63.09 CORE SIZE NQ

REMARKS

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Sheet No. 1

Project No. Road Zone Hole No. MR-114

Property Mispec

NTS 21 H/4W County St. John Parish Simonds

Date started Aug. 18, 1987 completed Aug 21, 1987

Contractor Longyear

Logged by R. Mann

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
0.0 - 3.00	Casing - no core recovery				
3.00 - 63.09	Arkose "Gran-Arkose unit" - dark green - coarse granitic texture gives appearance of a granite - dark green, fine grained, hairline calcite veinlets andesitic (intrusive?) sections as follows: 6.66-7.05 (sharp, bleached, fine grained contacts - suggest intrusive origin) 47.40-48.27; 50.10-54.75; 55.90-56.02; 56.40-58.36.	Foliation	Pervasive weak chlorite and sericitic	nil	
63.09	End of Hole				

63

LATITUDE 1+00 East

DEPARTURE 1 25 South

ELEVATION

DIP AT COLLAR vertical

BEARING

TOTAL DEPTH 50.10 m CORE SIZE NQ

REMARKS

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Sheet No 1

Project No. Road Zone Hole No. MR-115

Property Mispec

NTS 21 H/4W County St. John Parish Simonds

Date started Aug. 22, 1987 completed Aug. 23, 1987

Contractor Longyear

Logged by R. F. Mann

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
0.00 - 3.00	Overburden				
3.00 - 11.40	Altered Arkose (Gran-Arkose Unit) - light green, coarse grained - reddish hematite spots (1mm across) - minor calcite		Moderate sericitic	1 cm wide band of nearly massive specularite oriented 70° to C/A at 7.58 m	
11.40 - 50.10	Purple Shales and Siltstones (Fissile) - light maroon becomes darker purple color after about 31.00 m. - 1 to 2 mm calcite veinlets throughout, generally concordant or near concordant with fissility although later crosscutting veinlets are also present.	Schistosity 45-50° average			
50.10	End of Hole				

LATITUDE 0+25 East

DEPARTURE 0+39 South

ELEVATION

DIP AT COLLAR Vertical

BEARING

TOTAL DEPTH 130.15 CORE SIZE NQ

REMARKS Casing left in hole

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Sheet No. 1

Project: No. Road Zone Hole No. MR-116

Property Mispec

NTS 21 H/4W County St. John Parish Simonds

Date started Aug. 22, 1987 completed Aug 26, 1987

Contractor Longyear

Logged by R. F. Mann

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
0.0 - 1.80	Casing - no core recovery				
1.80 - 3.35	Granite (Gran-Arkose unit) - pink - coarse grained				
3.35 - 5.90	Andesite - dark green - fine grained (possibly tuff??) - vague feldspar phenocryst ghosts at 5.30-5.90 - sharp, chilled and bleached contacts at 5.90 suggests intrusive origin.		Calcareous		
5.90 - 9.03	Granite (Gran-Arkose unit) - pink and mottled (chlorite) - extremely hard (silicified) - hairline chloritic fractures		Moderate sericitic Silicified Minor chloritic		
9.03 - 20.28	Andesite Sill - same as 3.35 to 5.90 except that it includes a short granitic (gran-arkose) section at 13.50-14.02.				
20.28 - 21.86	Granite ("Gran-Arkose unit") Same as 5.90 to 9.03				
21.86 - 22.78	Andesite Sill Same as 3.35 to 5.90 with sharp bleached contacts.				

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No Road Zone Sheet No 2

Property Mispec

Hole No MR-116

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
22.78 - 35.79	Granite (Gran-Arkose Unit) Same as 5.90 to 9.03 except that this unit becomes strongly altered (sericitized) after 32 m and from 35.00 to 36.00 takes on a definite arkose nature grading quickly into purple shales at 36 m.	foliation 90°	Moderate sericitic		
35.79 - 44.60	Fissile Maroon Shale - maroon and maroon-grey - fine grained, fissile - abundant 1/4 to 1 mm qtz-CO_3 veinlet concordant or nearly concordant with schistosity.	fissility 60-65°	light green mineral in qtz-CO_3 vein at 41.86 resembles fuchsite		
44.60 - 46.75	Altered Siltstone and Qtz-CO_3 Veining - light green altered siltstone - a few qtz-CO_3 veins up to 30 cm wide e.g. 46.07 to 46.37.	65-70°	Moderate argillic illite and sericite	Trace pyrite up to 2% over a few cm	
46.75 - 50.50	Maroon and Maroon-Grey Siltstone and Shale - same as 35.79 to 44.60 above - highly fissile	Schistosity 65-70°			
50.50 - 54.35	Altered Siltstone and Tuffaceous Siltstone - light green with maroon-grey sections - unaltered purple-grey sections at 52.08 to 52.40 and 52.90 to 53.00	foliation 50°	Moderate sericitic	5-8% pyrite at 50.90 to 51.13	
54.35 - 82.65	Qtz-CO_3-Illite Alteration Zone - qtz-CO_3 (ankerite veining) shot through altered siltstones - short section of unaltered siltstone and purple shale at 61.26-61.70 and 78.10-78.70; 79.50-79.90. - Chlorite rich (tuffaceous) sections at 67.80-68.50; 80.30-81.40 - large nearly pure milky white qtz veins at 72.00-72.40.	bedding 75-80° @ 78.0 m	Intense argillic (illite)	Trace pyrite (up to 3%) locally over a few cm in illite sections Grey metallic mineral (trace) (tetrahedrite? stibnite)?,at 54.71, 55.14, 58.30, 70.00, 70.88, 71.07	Lost core: lost 1 m between 61.00 and 63.00

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No: Road Zone Sheet No: 3

Property: Mispec

Hole No: MR-116

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
82.65 - 85.30	Chloritic Tuffaceous (?) Siltstone - dark green - spotted (chlorite) - occasional 1 to 2 cm wide qtz-CO_3 veins - Note: short section of altered qtz as shale pebble conglomerate at 85.00-85.40	Foliation 75-85°	Strong sericite chloritic		
85.30 - 88.00	Fissile Purple Shale - fine grained, fissile - purple to purple-grey	Schistosity 75-80°			
88.00 - 99.35	Qtz-CO_3 - Illite Alteration Zone - greenish buff to pinkish green - qtz-CO_3 veining shot through silstone altering then to illite rich rock. - section of light grey unaltered siltstone at 91.00-91.30.	Schistosity 55-60°	Intense argillic-sericitic	Trace euhedral pyrite (up to 3% locally over a few cm)	Note: lost 0.50 m core from 88.00-88.50
99.35 - 109.90	Altered Conglomerate and Gritstone - light reddish green - clasts elongate 1/4 to 1 cm or a finer grit - core badly broken from 102.00 to 108.00 m rock is still strongly altered and foliation/bedding nearly perpendicular to core axis.	Foliation 45°	Moderate sericite	Trace euhedral pyrite in a few spots only	Fault Zone at 102 to 108 m. Lost core: lost approx. 2.5 m between 102.00 and 107.00 m Fault Gouge 102.70 and 107.70
109.90 - 111.70	Qtz-CO_3 Illite Alteration Zone - qtz-CO_3 shot through altered siltstone and gritstone	Foliation 65-70°		1% pyrite as euhedral crystals in illite	

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No Road Zone Sheet No 4

Property Mispec

Hole No MR-116

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
111.70 - 126.20	Intensely Altered Sediments - predominantly light green fine grained sediments altered to illite rich rock. - qtz-CO_3 veins 1 to 8 cm wide throughout - short conglomeratic interval 112.00 to 113.50 - hematite stained (reddish) at 112.30 to 115.20 - note short section of grey unaltered calcareous siltstone at 119.93 to 120.93 (1 metre).	Foliation variable but average 70° to c/A	Strong argillic (illite) and sericitic	Trace pyrite except at 124.10 to 126.20 interval which averages 5% dissem. pyrite	Core badly broken at 114 m to 115.50m Lost core: Lost 1 m from 114.00 to 115.50 m
126.20 - 130.15	Granite and Shale Clast Conglomerate - sub-rounded, elongate 2-3 cm pink granite clasts and dark purple shale clasts in a sandy gritstone matrix.	Bedding Schistosity 70-75°	Moderate sericitic	Nil	
130.15	End of Hole				

Laboratory: Loring Lab

* Coarse Gold Assays

MISPEC RESOUNCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No: Road Zone Sheet No: 1

Property: Mispec

Hole No: MR-116

Sample Number	Depth From	Depth To	Width	ASSAYS							From	To	Width					
					opt Au													
575	44.50	45.50	1.00		0.004													
576	45.50	46.50	1.00		0.014													
577	47.85	48.35	0.50		0.010													
578	50.50	51.50	1.00		0.008													
579	51.50	53.00	1.50		0.008													
580	53.00	54.00	1.00		TR													
581	54.00	55.00	1.00		0.009	*												
582	55.00	56.00	1.00		0.017	*												
583	56.00	57.00	1.00		0.052	*												
584	57.00	58.00	1.00		0.078	*												
585	58.00	59.00	1.00		0.016													
586	59.00	60.00	1.00		0.032													
587	60.00	61.00	1.00		0.016													
588	61.00	63.00	2.00		0.004	LOST CORE - 1 METRE												
589	63.00	64.00	1.00		0.006													
590	64.00	65.00	1.00		0.020													

Calculations by: _____

Analyst: _____

Laboratory Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No Road Zone Sheet No 2

Property Mispec

Hole No MR-116

Sample Number	Depth		Width	ASSAYS														
	From	To			opt Au							From	To	Width					
591	65.00	66.00	1.00		0.004														
592	66.00	67.00	1.00		0.012														
593	67.00	68.00	1.00		0.008														
594	68.00	69.00	1.00		0.012														
595	69.00	70.00	1.00		0.136	*													
596	70.00	71.00	1.00		0.028	*													
597	71.00	72.00	1.00		0.028	*													
598	72.00	74.00	2.00		0.002	*													
599	74.00	75.00	1.00		0.010														
600	75.00	76.00	1.00		0.018														
601	76.00	77.00	1.00		0.054														
602	77.00	78.00	1.00		0.12														
603	78.00	78.70	0.70		0.002														
604	78.70	79.50	0.80		0.018														
605	79.50	81.00	1.50		0.036														
606	81.00	82.00	1.00		0.022														
607	82.00	83.00	1.00		0.008														
608	83.00	84.00	1.00		0.006														

Calculations by _____

Analyst _____

Laboratory Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No Road Zone Sheet No 3

Property Mispec

Hole No MR-116

Sample Number	Depth From	Depth To	Width	ASSAYS	opt Au						From	To	Width					
609	84.00	85.30	1.30		TR													
610	88.50	90.00	1.50		0.034													
611	90.00	91.00	1.00		0.004													
612	91.00	92.00	1.00		0.010													
613	92.00	93.00	1.00		0.004													
614	93.00	94.00	1.00		0.004													
615	94.00	95.00	1.00		0.016													
616	95.00	96.00	1.00		0.008													
617	96.00	97.00	1.00		0.022													
618	97.00	98.00	1.00		0.014													
619	98.00	99.40	1.40		0.026													
620	99.40	100.60	1.20		0.006													
621	100.60	101.60	1.00		0.004													
622	101.60	102.80	1.20		0.042													
623	102.80	107.00	4.20		0.014	NOTE: 2.50 METRES CORE LOST												
624	107.00	108.00	1.00		0.008													
625	108.00	109.00	1.00		0.008													

Calculations by _____

Analyst _____

Laboratory: Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No: Road Zone Sheet No: 4

Property: Mispec

Hole No: MR-116

Sample Number	Depth From	Depth To	Width	ASSAYS															
					opt Au							From	To	Width					
626	109.00	110.00	1.00		0.004														
627	110.00	111.00	1.00		0.026														
628	111.00	111.80	0.80		0.004														
629	111.80	113.00	1.20		0.006														
630	113.00	114.00	1.00		0.006														
631	114.00	116.00	2.00		0.004	NOTE: LOST CORE 1.00 M													
632	116.00	117.00	1.00		TR														
633	117.00	118.00	1.00		0.002														
634	118.00	119.00	1.00		TR														
635	119.00	119.90	0.90		0.008														
636	121.00	122.00	1.00		TR														
637	122.00	123.00	1.00		0.008														
638	123.00	124.00	1.00		0.010														
639	124.00	125.00	1.00		0.030														
640	125.00	126.10	1.10		0.028														

Calculations by: _____

Analyst: _____

LATITUDE Line 1+00 East

DEPARTURE 3+26 South

ELEVATION

DIP AT COLLAR -45°

BEARING 133° Az

TOTAL DEPTH 99.67 m CORE SIZE NQ

REMARKS Testing weak IP anomaly

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Sheet No. 1

Project No. Road Zone Hole No. MR-117

Property Mispec

NTS 21 H/4W County St. John Parish Simonds

Date started Aug. 24, 1987 completed Aug. 27, 1987

Contractor Longyear

Logged by R. F. Mann

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
0.0 - 4.00	Casing - no core recovery				
4.00 - 17.10	Andesite - medium grain, massive, homogeneous - dark green - moderately calcareous - sharp chilled contact at 17.10 - occasional late calcite veinlets				
17.10 - 24.80	Arkose (Gran-Arkose Unit) - coarse granitic texture (mottled) - dark green - homogeneous - grades into a bleached altered arkose after about 24.00 m		Moderate chloritic, sericitic		
24.80 - 53.30	Altered Arkose - bleached, light green - common 2 cm to 5 cm qtz (+minor CO_3) veinlets generally about 60° to C/A - a few short light green siltstone intervals eg 29.88-30.13; 51.42-51.66.	Schistosity 55°	Strong sericitic	A few 1/2 to 1 cm wide specularite/pyrite veinlets 50° to C/A at 28.30, 28.36, 28.57, 51.24 Also 46.84 to 46.97 and 47.38 to 47.53.	
53.30 - 70.10	Interlayered Arkose and Siltstone (Altered) - light greenish-grey siltstone interlayered with intensely altered light green arkose - siltstone beds are generally 0.40 to 1.00 m wide. - vuggy qtz-CO_3 veining throughout - short secton from 68.90 to 69.90 of qtz - CO_3 - illite-pyrite	Variable 35-40°	Moderate Sericitic	Grey metallic mineral (Tetrahedrite) at 56.30 in 1/2 cm wide qtz-CO_3 veinlet also at 69.69, 68.34	Light green mineral resembles fuchsite at 66.00 to 67.00

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No Road Zone Sheet No 2

Property Mispec

Hole No MR-117

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
53.30 - 70.10	(Continued)			Also a few short pyritic intervals 1 to 3% pyrite, eg. 66.40-67.30, 68.10-68.40 Qtz vein at 57.20 to 57.43 has 1 cm to 2 cm wide patch of massive pyrite.	
70.10 - 99.67	Intensely Altered Arkose - light green - hairline chloritic fractures throughout - qtz veinlet 1/4 to 5 cm throughout	Vague schistosity 40°	Intense sericitic and intense silicification	Trace disseminated euhedral pyrite eg at 72.50-74.00; 91.40-92.60 Qtz vein at 72.00-72.50 has a 1/2 cm band of massive pyrite and trace disseminated pyrite in the qtz. Grey metallic mineral (trace) (tetrahedrite?) at 78.11.	
99.67	End of Hole				

74

Laboratory Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No Road Zone Sheet No 1

Property Mispec

Hole No MR-117

Sample Number	Depth		Width	ASSAYS							From	To	Width					
	From	To			opt Au													
641	46.80	47.80	1.00		0.006													
642	56.00	57.00	1.00		0.006													
643	57.00	58.00	1.00		0.094													
644	58.00	59.00	1.00		0.012													
645	65.60	67.00	1.40		0.006													
646	67.00	68.00	1.00		0.003													
647	68.00	69.00	1.00		0.054													
648	69.00	70.00	1.00		0.004													
649	72.00	73.00	1.00		0.012													
650	73.00	74.00	1.00		0.010													
651	78.00	79.00	1.00		0.002													
652	81.00	82.00	1.00		0.002													
653	82.00	83.00	1.00		TR													
654	91.00	92.00	1.00		TR													
655	92.00	93.00	1.00		TR													

Calculations by _____

Analyst _____

LATITUDE 0+25 East

DEPARTURE 0+59 South

ELEVATION

DIP AT COLLAR Vertical

BEARING

TOTAL DEPTH 97.23 m CORE SIZE NQ

REMARKS

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Sheet No. 1

Project No Road Zone Hole No MR-118

Property Mispec

NTS 21 H/4W County St. John Parish Simonds

Date started Aug. 27, 1987 completed Aug. 30, 1987

Contractor Longyear

Logged by R. F. Mann

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
0.0 - 1.80	Casing - no core recovery				
1.80 - 9.96	Arkose ("Gran-Arkose" unit) - coarse grained, mottled texture (granitic) - pinkish green		weak sericitic, chloritic		
9.96 - 17.34	Andesite Sill - dark green - fine grained, massive - minor calcite veinlets - sharp chilled and bleached contacts - short arkose section at 16.28-16.37				
17.34 - 19.20	Arkose (Gran Arkose unit) - same as 1.80 to 9.96 above				
19.20 - 22.80	Andesite - same as 9.96-17.34 above except for section 19.35-20.40 has vague calcite and feldspar porphyroblast 1 mm to 2 mm across.				
22.80 - 36.05	Altered Arkose - light pinkish-green - medium grained, becomes finer grained toward bottom of this section	vague 50° foliation	Moderate sericitic		
36.05 - 70.11	Purple and Purple Grey Shale and Siltstone - fissile purple shale and greyish purple siltstone interlayered - qtz-CO_3 (calcite) veins 5-10 cm wide (up to 20 cm) down to about 57 m - small 1 mm qtz calcite veinlets (concordant or nearly so with schistosity) occurs throughout the section.				

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No Road Zone Sheet No 2

Property Mispec

Hole No MR-118

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
36.05 - 70.11	(continued) - note calcareous light grey lining siltstone section 65.40-66.18.	foliation bedding 65-70°	No alteration haloes are present next to the Qtz-CO_3 (calcite) veins.		
70.11 - 84.95	Qtz-CO_3-Illite Alteration Zone - siltstone and shales altered to illite rich rock by Qtz-CO_3 ankerite flooding and veining. - minor pyrite throughout	bedding/ foliation 70°	Intense argillic	Trace pyrite throughout with up to 5% locally as 1/2 mm euhedral crystals in the illite sections which are generally 2 to 10 cm wide. Visible gold at 84.06 pinhead size in 1 cm wide qtz vein with trace pyrite and cpy.	
84.95 - 97.23	Purple and Purple-Grey Shale and Siltstone - same as 36.05 to 70.11 above - grey calcareous siltstone at 93.04-93.80	Bedding/ schistos. 75-80°	Weak to moderate sericitic and argillic at 85.10-86.30	Occasional 1 cm patch of specularite in 6 cm wide qtz-CO_3 vein eg. at 92.34.	
97.23	End of Hole				

77

Laboratory Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No Road Zone Sheet No 1

Property Mispec

Hole No MR-118

* Coarse Gold Assays

Sample Number	Depth From	Depth To	Width	ASSAYS															
					opt Au							From	To	Width					
678	70.00	71.00	1.00		0.024														
679	71.00	72.00	1.00		0.020														
690	72.00	73.00	1.00		0.004														
681	73.00	74.00	1.00		0.030														
682	74.00	75.00	1.00		0.036														
683	75.00	76.00	1.00		0.006														
684	76.00	77.00	1.00		0.078														
685	77.00	78.00	1.00		0.148														
686	78.00	79.00	1.00		0.006														
687	79.00	80.00	1.00		0.016														
688	80.00	81.00	1.00		0.004														
689	81.00	82.00	1.00		0.023	*													
690	82.00	83.00	1.00		0.035	*													
691	83.00	84.00	1.00		0.016	*													
692	84.00	85.00	1.00		0.011	*													

Calculations by _____

Analyst _____

Laboratory Custom Lab, Bathurst

Sludges

MISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No. Road Zone Sheet No. 2

Property Mispec Resources

Hole No. MR-118

Sample Number	Depth		Width	ASSAYS															
	From	To			opt Au						From	To	Width						
Footage Interval	Metres	Metres																	
237-247	72.23	75.28	3.05		0.030														
247-257	75.28	78.33	3.05		0.119														
257-267	78.33	81.38	3.05		0.062														

Calculations by _____

Analyst _____

79

LATITUDE Line 0+00 E

DEPARTURE 1+08 South

ELEVATION

DIP AT COLLAR Vertical

BEARING

TOTAL DEPTH 90.53m CORE SIZE NQ

REMARKS

MISPEC RESOUNCES INC.

DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Sheet No 1

Project No Road Zone Hole No MR-119

Property Mispec

NTS 21 H/4W County St. John Parish Simonds

Date started Aug. 27, 1987 completed Aug. 30, 1987

Contractor Longyear

Logged by R. F. Mann

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
0.0 - 2.50	Casing - no core recovery				
2.50 - 59.75	Arkose ("Gran-Arknose" unit) - light pinkish-green - mottled granitic texture - abundant hairline chlorite-sericite fractures down to approx 32 m - qtz veining - very rare - at 25.68-25.80 short section of buff-grey green siltstone at 45° to C/A, has trace euhedral pyrite - red 1 mm hematitic spots common after 32.00 to 56.50 m - from 56.70-59.75 is progressively more intensely altered to a light buff-green coarse grained qtz-sericite rock - sharp contact at 59.75 with purple shale	Vague foliation 50° to c/A	Weak sericitic - chloritic to 32.00 m Intense sericitic from 56.70 to 59.75		Badly broken core from 2.50 to 4.50m
59.75 - 90.53	Purple shale and siltstone - predominantly dark purple to purple-grey - shale beds highly fissile - abundant concordant or nearly concordant 1-2 mm qtz-CO_3 (calcite) veinlets, often ptygmatically folded locally.	Bedding/ schistos. 55-60° average			
90.53	End of Hole				

Laboratory Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No Road Zone Sheet No 1

Property Mispec

Hole No MR-119

Sample Number	Depth		Width	ASSAYS															
	From	To			opt Au						From	To	Width						
656	57.00	58.00	1.00		TR														
657	58.00	59.00	1.00		TR														
658	59.00	59.75	0.75		TR														

Calculations by: _____

Analyst _____

_____

LATITUDE 2+00 East

DEPARTURE 2+73 South

ELEVATION

DIP AT COLLAR Vertical

BEARING

TOTAL DEPTH 75.28 m CORE SIZE NQ

REMARKS

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Sheet No 1

Project No Birches Area Hole No MR-120

Property Mispec

NTS 21 H/4W County St. John Parish Simonds

Date started Aug. 30, 1987 completed Sept. 2, 1987

Contractor Longyear

Logged by R. F. Mann

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
0.0 - 3.40	Casing - no core recovery				
3.40 - 27.20	Altered Arkose - light apple green color, becomes pinkish color after 19 m - medium to coarse grained - a few short sections of light green altered siltstone interlayered, eg. 4.07-5.80 (has fuchsite-like spots) 6.50-7.25; 18.40-18.50 - white milky qtz veins generally 2 to 15 cm wide are common - lot of qtz flooding in interval 14.70 to 19.00m	Foliation 45°	Strongly sericitized and silicified	Trace euhedral pyrite disseminated in altered arkose.	Bright green mineral (lenbid streaks up to 1 mm long) resembling fuchsite at 4.07 to 4.80.
27.20 - 34.40	Altered Arkose with Siltstone and Tuffaceous Siltstone beds - similar to unit above except this unit is darker green with more intimately intermixed green and dark green tuffaceous looking siltstone.	Foliation bedding 45-50°		Nearly parallel with core axis is a specularite-pyrite rich section from 29.60 to 31.00 with speck of visible gold in qtz-CO_3 at 29.77 (Irregular specularite patches up to 2 cm across with associated coarser pyrite (5% average content)) occur in a coarse qtz-sericite-CO_3 matrix.	

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No Birches Area Sheet No 2

Property Mispec

Hole No MR-120

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
34.40 - 46.10	Altered Green Arkose - light green - medium to coarse grained - abundant milky white qtz veining (has minor carbonate) - resembles an altered granite	vague foliation 45°	Moderate to strong sericitic	trace pyrite	
46.10 - 61.90	Intensly Altered Pyritic Arkose and Siltstone - light green - thinly bedded siltstone altered to illite eg at 48 to 54.40 - short section of weakly altered pebble conglomerate at 54.50 to 55.50 has a few 1 mm wide patches of specularite. - abrupt changes in foliation an core angle over a metre or two suggest local folding - eg at 51.00m, 53.00 m. - occasional qtz-CO_3 veins (up to 15 cm wide) and veinlets throughout.	Highly variable locally but foliation averages 75-80°	Intense argillic and sericitic	Euhedral pyrite crystals 1/2 to 1 mm across occur throughout (except in the qtz veins) comprises 3-5% with up to 15% locally over a few cm.	
61.90 - 67.75	Purple and Light Green Siltstone - altered arkose from the unit above grades into a greyish maroon arkosic siltstone and then at 66.25 grades into light green, slightly chloritic siltstone (tuffaceous??).	Bedding foliation 80-85°		Trace pyrite (euhedral) at 67.40-67.75	
67.75 - 75.29	Altered Greenish-pink Arkose - light green to greenish-pink - medium to coarse grained - 1 mm hematite spots common - slightly calcareous patches and hairline fractures - @ 74.10-74.78 fine grained spotted (chlorite) rock, (tuff??) with sharp contacts. Hematite rich at 74.10 to 74.14.	Vague foliation 55°	Moderate sericitic		
75.29	End of Hole				

Laboratory Loring Lab

* Coarse Gold Assays

MISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No Birches Sheet No 1

Property Mispec

Hole No MR-120

Sample Number	Depth From	Depth To	Width	ASSAYS															
					opt Au							From	To	Width					
724	4.00	5.00	1.00		TR														
725	5.00	6.00	1.00		0.006														
726	14.00	15.00	1.00		0.004														
727	15.00	16.00	1.00		0.002														
728	16.00	17.00	1.00		0.002														
729	17.00	18.00	1.00		0.004														
730	18.00	19.00	1.00		0.012														
731	19.00	20.00	1.00		0.006														
732	20.00	21.00	1.00		0.004														
733	21.00	22.00	1.00		TR														
734	22.00	23.00	1.00		0.008														
735	25.70	27.00	1.30		0.004														
736	27.00	28.00	1.00		0.006	*													
737	28.00	29.00	1.00		0.004	*													
738	29.00	30.00	1.00		0.021	*													
739	30.00	31.00	1.00		0.046	*													

Calculations by _____

Analyst _____

Laboratory _____

MISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No Birches Sheet No 2

Property Mispec

Hole No MR-120

Sample Number	Depth From	Depth To	Width	ASSAYS														
					opt Au						From	To	Width					
740	31.00	32.00	1.00		0.002	*	"											
741	32.00	33.00	1.00		TR													
742	33.00	34.40	1.40		0.004													
743	34.40	36.00	1.60		TR													
744	36.00	38.00	2.00		TR													
745	38.00	40.00	2.00		TR													
746	40.00	42.00	2.00		0.004													
747	42.00	44.00	2.00		TR													
748	44.00	46.00	2.00		TR													
749	46.00	47.00	1.00		0.002													
750	47.00	48.00	1.00		0.004													
751	48.00	49.00	1.00		0.006													
752	49.00	50.00	1.00		0.006													
753	50.00	51.00	1.00		0.002													
754	51.00	52.00	1.00		0.006													
755	52.00	53.00	1.00		0.008													
756	53.00	54.00	1.00		0.008													
757	54.00	55.00	1.00		0.008													

Calculations by _____

Analyst _____

Laboratory Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No Birches Sheet No 3

Property Mispec

Hole No MR-120

Sample Number	Depth		Width	ASSAYS														
	From	To			Opt Au						From	To	Width					
758	55.00	56.00	1.00		0.006													
759	56.00	57.00	1.00		0.014													
760	57.00	58.00	1.00		0.020													
761	58.00	59.00	1.00		0.006													
762	59.00	60.00	1.00		0.012													
763	60.00	61.00	1.00		0.008													
764	61.00	62.00	1.00		0.010													
783	62.00	63.00	1.00		0.006													

Calculations by _____

Analyst _____

Laboratory Custom Lab, Bathurst

Sludges

MISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No Birches Area Sheet No 4

Property Mispec Resources

Hole No MR-120

Sample Number	Depth		Width	ASSAYS														
	From	To			opt Au						From	To	Width					
Footage Interval	Metres	Metres																
87-97	26.52	29.57	3.05		0.004													
97-107	29.57	32.61	3.05		0.048													
107-117	32.61	35.66	3.05		0.001													
117-127	35.66	38.71	3.05		0.001													
127-137	38.71	41.76	3.05		ND													
137-147	41.76	44.81	3.05		ND													
147-157	44.81	47.85	3.05		0.001													
157-167	47.85	50.90	3.05		0.008													
167-177	50.90	53.95	3.05		0.024													
177-187	53.95	57.00	3.05		0.008													
187-197	57.00	60.05	3.05		0.048													
197-207	60.05	63.10	3.05		0.048													

LATITUDE 0+75 East

DEPARTURE 0+22 South

ELEVATION

DIP AT COLLAR Vertical

BEARING

TOTAL DEPTH 53.95 m CORE SIZE N Q

REMARKS

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Sheet No. 1

Project No Road Zone Hole No MR-121

Property mispec

NTS 21 H/4W County St. John Parish Simonds

Date started Aug. 30, 1987 completed Sept. 1, 1987

Contractor Longyear

Logged by R. F. Mann

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
0.0 - 4.80	Casing				
4.80 - 20.25	Purple and purplish Shale and Siltstone - thin beds of fissile purple shale and purplish-grey shale and fine grained siltstone. - pinkish concordant and semi-concordant 1 mm qtz-CO_3 veinlets throughout with local ptygmatic folding. - short section of qtz-CO_3 illite pyrite alteration at 18.63-19.15.	bedding fissility 70-75°	Nil		Core badly broken from 4.50-18.00 Lost core 0.40 m
20:25 - 37.00	Qtz-CO_3 Illite Alteration Zone - qtz-ankerite veining shot through seds altered to illite - qtz has a lot of red oxide (hematite) staining on fracture planes.	schistos. 45-50°	Intense argillic and silicification	Trace pyrite overall but up to 5% euhedral crystals in illite over a few cm at about 8 intervals in the section.	Core badly broken 22.80-26.50
37.00 - 38.75	Altered Siltstone and Shale - light pinkish-grey - medium to fine grained - a few 1 to 2 cm wide qtz-CO_3 veinlets.	Schistos. 65°	Moderate sericitic	Trace disseminated pyrite	

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No Road Zone Sheet No 2

Property Mispec

Hole No MR-121

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
38.75 - 42.05	Fissile Purple Shale - same as 4.80-20.25 except - minor calcareous grey siltstone section at 39.18-39.30 - pebble conglomerate (shale and qtz) at 41.51-42.00	Fissility 85-90°			
42.05 - 46.30	Altered Tuffaceous (?) Siltstone - light green - lensoid chloritic clots (pin head size)	Schist. 85-90°	strong sericitic and minor chloritic		
46.30 - 53.95	Purple Shale and Siltstone - same as 4.80-20.25 except this section has a few short intervals of light green (chloritic) tuffaceous siltstone at 46.94-47.52 and 49.90 to 50.68; 52.18-52.63 - a few vuggy qtz-CO_3 veins 5-15 cm wide	Schist. 80-85°			
53.95	End of Hole				

Laboratory Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No. Road Zone Sheet No. 1

Property Mispec

Hole No. MR-121

Sample Number	Depth		Width	ASSAYS						Sample No.	From	To	Width		opt Au			
	From	To			opt Au													
659	18.70	19.10	0.40		0.008					677	38.00	39.00	1.00		0.004			
660	20.30	22.00	1.70		0.022		NOTE: 0.50M LOST CORE											
661	22.00	23.00	1.00		0.012													
662	23.00	24.00	1.00		0.032													
663	24.00	25.00	1.00		0.080													
664	25.00	26.00	1.00		0.062													
665	26.00	27.00	1.00		0.018													
666	27.00	28.00	1.00		0.006													
667	28.00	29.00	1.00		0.016													
668	29.00	30.00	1.00		0.052													
669	30.00	31.00	1.00		0.040													
670	31.00	32.00	1.00		0.012													
671	32.00	33.00	1.00		0.162													
672	33.00	34.00	1.00		0.018													
673	34.00	35.00	1.00		0.040													
674	35.00	36.00	1.00		0.050													
675	36.00	37.00	1.00		0.008													
676	37.00	38.00	1.00		0.008													

Calculations by: _____

Analyst: _____

90

LATITUDE 1+64E

DEPARTURE 2+93 South

ELEVATION

DIP AT COLLAR Vertical

BEARING

TOTAL DEPTH 66.14 m CORE SIZE NQ

REMARKS

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Sheet No. 1

Project No. Birches Hole No. MR-122

Property Mispec

NTS 21 H/4W County St. John Parish Simonds

Date started Sept. 3, 1987 completed Sept. 5, 1987

Contractor Longyear

Logged by R. F. Mann

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
0.0 - 3.00	Overburden - no core recovery				
3.00 - 9.06	Strongly Altered Siltstone - light buff green - fine grained, massive - the alteration is so pervasive and intense that the rock resembles an altered felsic flow or tuff, in places. - occasional 1 to 2 mm wide qtz-specularite pyrite veinlet.	Foliation vague 50°	Strong sericitic	Trace euhedral pyrite Dusty specularite in section 5.40 to 6.00	Strongly oxidized and broken core down to 4.3 m
9.06 - 11.70	Altered Arkose - light greenish-pink - medium to coarse grained - 1 mm red hematitic spots - a few 1 cm wide qtz-CO_3 veins.				
11.70 - 25.85	Strongly Altered Siltstone Same as 3.00-9.06 above except this section has more 1 to 3 cm wide qtz-CO_3 veins and is more pyritic (3-5%) in a few sections (see mineralization) - smoky qtz-CO_3 veins with dusty pyrite are common - generally 1/4 to 1/2 cm across.	Nearly massive texture	Intense sericitic	3-5% disseminated euhedral pyrite in following intervals 16.90-17.40; 19.50-25.20	

MISPEC RESOURCES INC.

DIAMOND DRILL CORE LOG

Project No Birches Sheet No 2

Property Mispec

Hole No MR-122

Depth & Lithology	Description	Structure angle to core axis	Alteration	Mineralization	Remarks
28.85 - 47.15	Altered Green Arkose (Gran Arkose Unit) - coarse grained - light green - fair amount of smoky qtz (+minor CO_3) veining, expecially in section 32.50 to 41.70 - a few short sections of light green altered siltstone eg at 34.63-34.95; 41.70-43.20; 44.00-45.75.		Strong sericitic	Trace disseminated euhedral pyrite.	
47.15 - 52.20	Milky White Qtz Vein - pure white - barren looking except for a few 1 cm patches of pyritic illite at 48.80, 50.80, 51.56				
52.20 - 61.80	Altered Pyritic Siltstone and Arkose - light buff-green sediments altered to illite by qtz-CO_3 veining shot throughout - mostly qtz vein from 57.00-58.00 - after 61.80, rock grades into a maroon arkosic siltstone and then purplish-grey shale.	Foliation variable 40°	Intense argillic (illite) + sericitic Minor chloritic at 59.82 to 60.58.	3-4% disseminated pyrite throughout	
61.80 - 66.14	Maroon-Grey Purple Siltstone and Shales - altered sediments above grade into an arkosic siltstone and then into a dark grey-purple shale.	10-20°			
66.14	End of Hole				

Laboratory Loring Lab

MISPEC RESOURCES INC.

DIAMOND DRILL CORE ASSAY RECORD

Project No. Birches Sheet No. 1

Property Mispec

Hole No. MR-122

Sample Number	Depth From	Depth To	Width	ASSAYS							From	To	Width					
					opt Au													
701	12.00	13.00	1.00		0.016													
702	13.00	14.00	1.00		0.004													
703	16.70	17.40	0.70		0.012													
704	17.40	19.40	2.00		TR													
705	19.40	21.00	1.60		0.014													
706	21.00	22.00	1.00		0.010													
707	22.00	23.00	1.00		0.008													
708	23.00	24.00	1.00		0.008													
709	24.00	25.20	1.20		0.010													
710	33.00	34.00	1.00		0.006													
711	34.00	35.00	1.00		0.008													
770	35.00	36.00	1.00		0.006													
771	36.00	37.00	1.00		0.004													
772	37.00	38.00	1.00		0.004													
773	38.00	39.00	1.00		TR													
774	39.00	40.00	1.00		0.002													

Calculations by: _____

Analyst _____

Laboratory _____

MISPEC RESOURCES INC.

DIAMOND DRILL
CORE ASSAY RECORD

Project No. Birches Sheet No. 2

Property Mispec

Hole No. MR-122

Sample Number	Depth From	Depth To	Width	ASSAYS	opt Au					Sample No.	From	To	Width		opt Au			
775	40.00	41.00	1.00		0.004					722	60.00	61.00	1.00		0.006			
776	41.00	42.00	1.00		0.006					723	61.00	62.00	1.00		0.008			
777	42.00	43.00	1.00		0.004													
778	43.00	44.00	1.00		0.006													
779	44.00	45.00	1.00		0.012													
780	45.00	46.00	1.00		0.008													
781	46.00	47.00	1.00		0.002													
782	47.00	48.00	1.00		TR													
712	48.00	50.00	2.00		0.004													
713	50.00	52.00	2.00		TR													
714	52.00	53.00	1.00		0.008													
715	53.00	54.00	1.00		0.012													
716	54.00	55.00	1.00		0.014													
717	55.00	56.00	1.00		0.006													
718	56.00	57.00	1.00		0.008													
719	57.00	58.00	1.00		0.004													
720	58.00	59.00	1.00		0.008													
721	59.00	60.00	1.00		0.010													

Calculations by: _____

Analyst _____

APPENDIX 2

ASSAY TECHNIQUES

A brief description of the sample preparation and assay method used by each of the three labs is given below:

1) **Loring Labs - Calgary** (Mr. Sodi Berron)

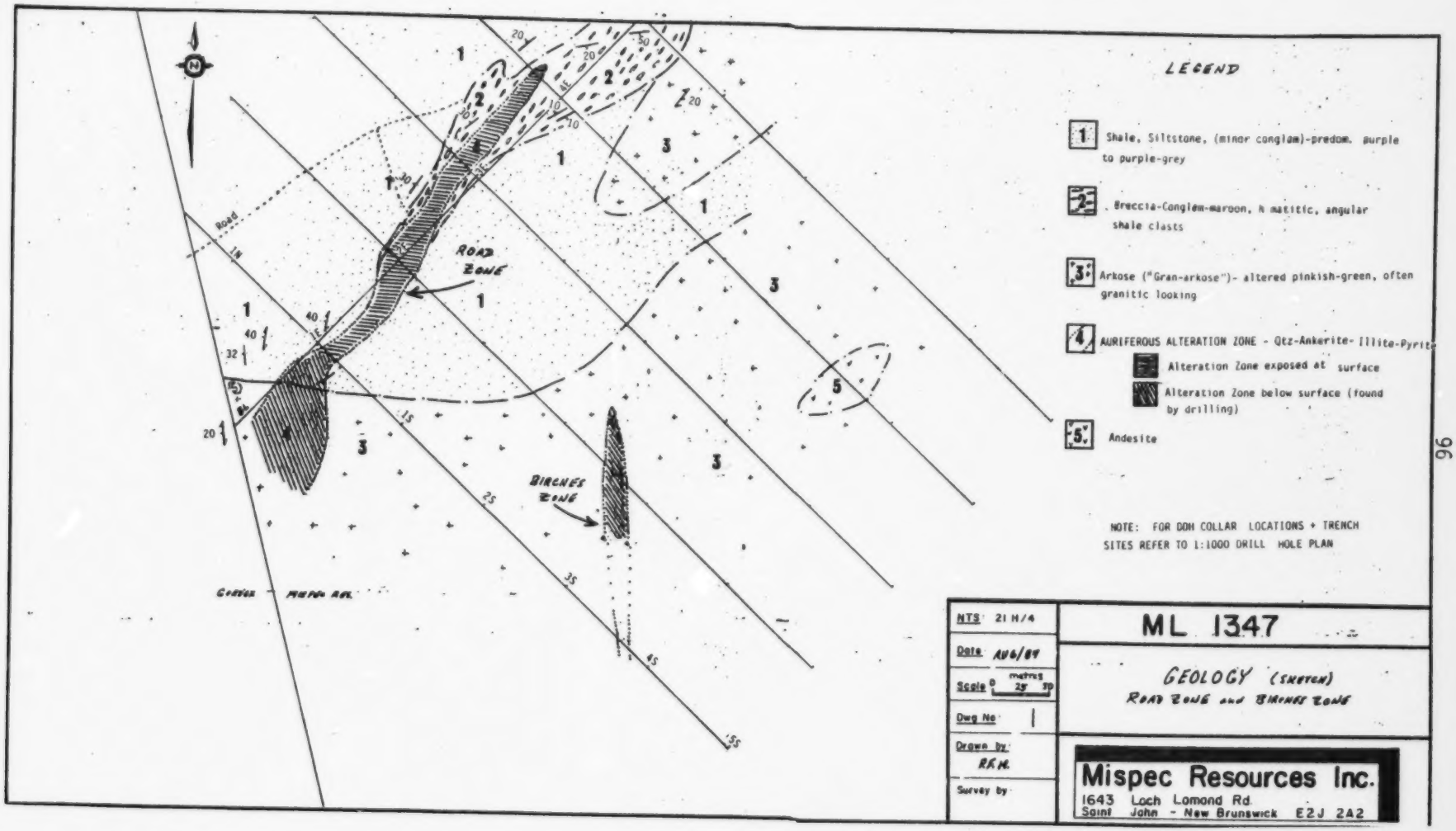
- entire sample crushed to -10 and rolled on a large rolling mat.
- A 300 gram sample was then cut and ground in a disc pulverizer.
- this 300 gram sample was then screened with a 150 mesh sieve (at least 10% of the sample is retained in the +150 mesh screen).
- the entire +150 portion is weighed and put in crucible (up to 30 gram)
- the -150 portion is mixed and a one assay ton cut 29.36 gram is put in crucible.
- the assays of each of the two fractions are then combined to yield the reported assay.

2) **Custom Lab - Bathurst** (Robert Stairs and E. Grant)

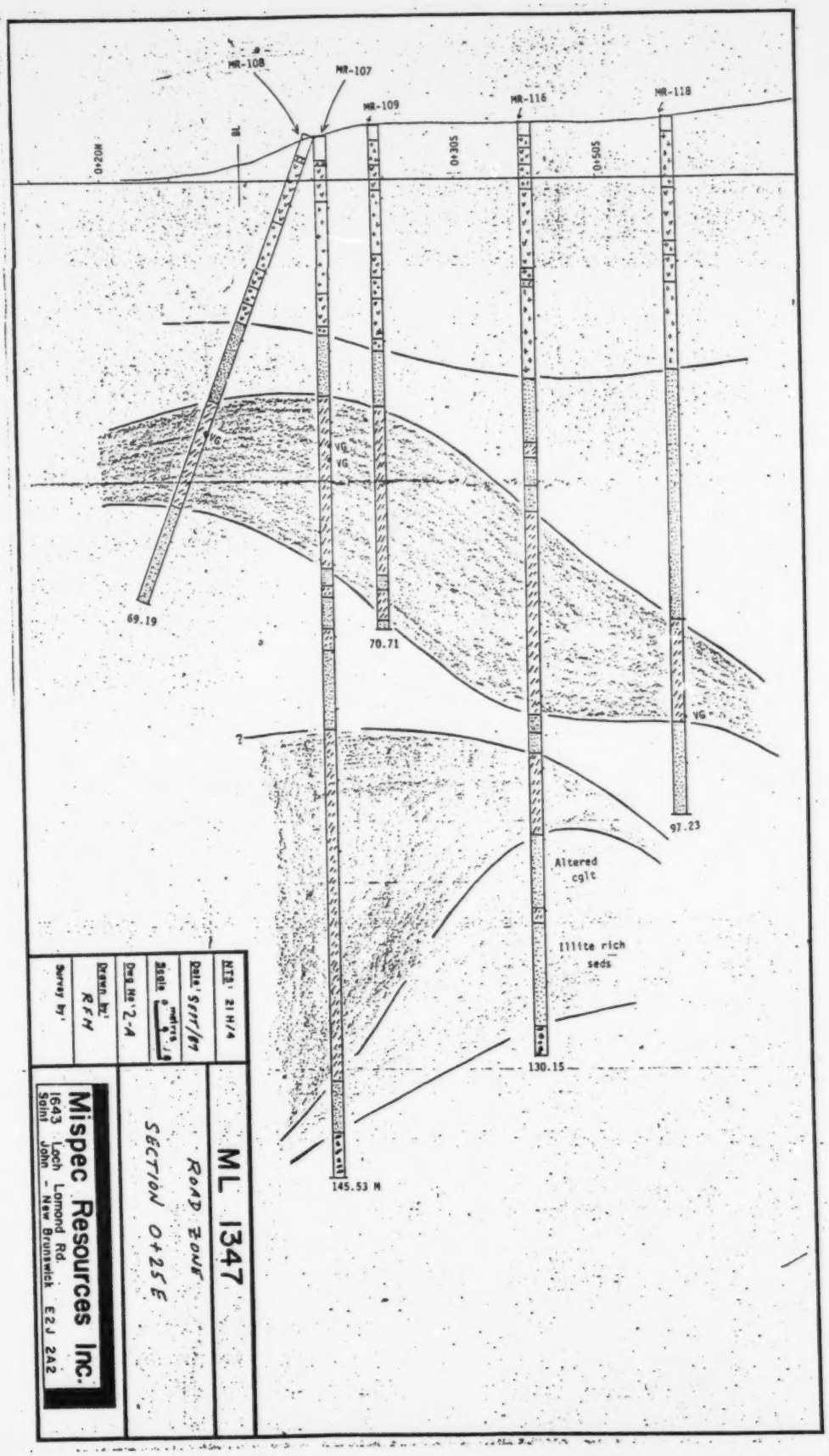
- entire sample was crushed to approx 1/4 inch and fine, then quartered.
- approx. 100 gms was taken from one of the quarters and pulverized to about 200 mesh.
- a one-half assay ton 14.683 sample of the pulverized portion was then fused in the crucible.

3) **Assayers Ltd - Rouyn, P.Q.** (Mr. Shaw)

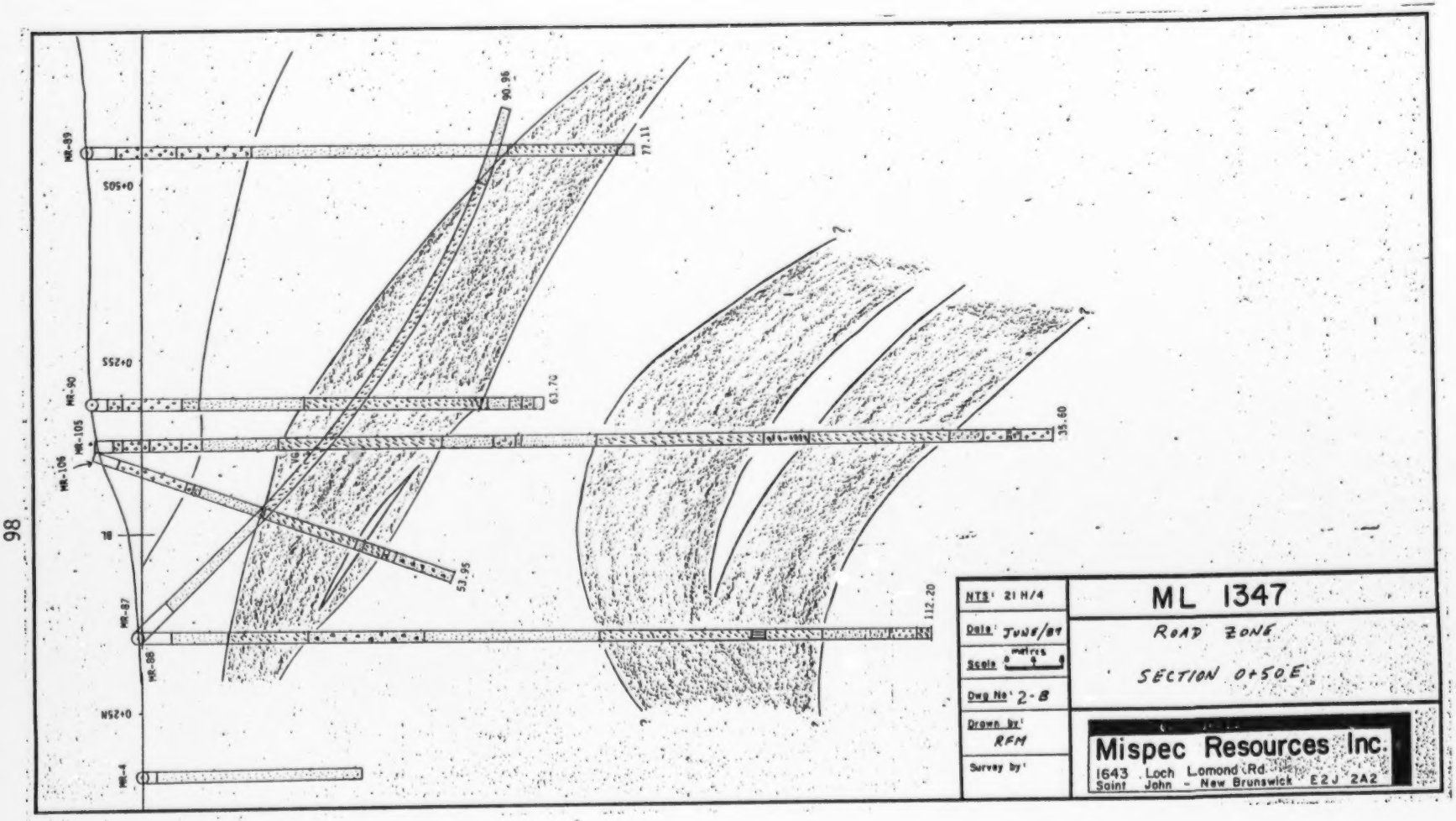
- entire sample into jam crusher (1/2 to 1/4 inch frags) and then into a cone crusher to 10 mesh.
- it is then quartered by riffling.
- about one pound of this quartered sample is then pulverized to 100 - 150 mesh, put into a jar, and shaken.
- A one-half assay ton (14.683 gm) sample was taken and fused in the cruicble.


LEGEND
1 Shale, Siltstone, (minor conglom)-predom. purple to purple-grey
2 Breccia-Conglom-maroon, h matitic, angular shale clasts
3 Arkose ("Gran-arkose")- altered pinkish-green, often granitic looking
4 AURIFEROUS ALTERATION ZONE - Qtz-Ankerite- Illite-Pyrite
Alteration Zone exposed at surface
Alteration Zone below surface (found by drilling)
5 Andesite
NOTE: FOR DDH COLLAR LOCATIONS + TRENCH SITES REFER TO 1:1000 DRILL HOLE PLAN
ROAD ZONE
BIRCHES ZONE
Road
NTS 21 H/4
Date AUG/89
Scale 0 metres 25 50
Dwg No 1
Drawn by R.F.M.
Survey by
ML 1347
GEOLOGY (SKETCH)
ROAD ZONE and BIRCHES ZONE
Mispec Resources Inc.
1643 Loch Lomond Rd.
Saint John - New Brunswick E2J 2A2

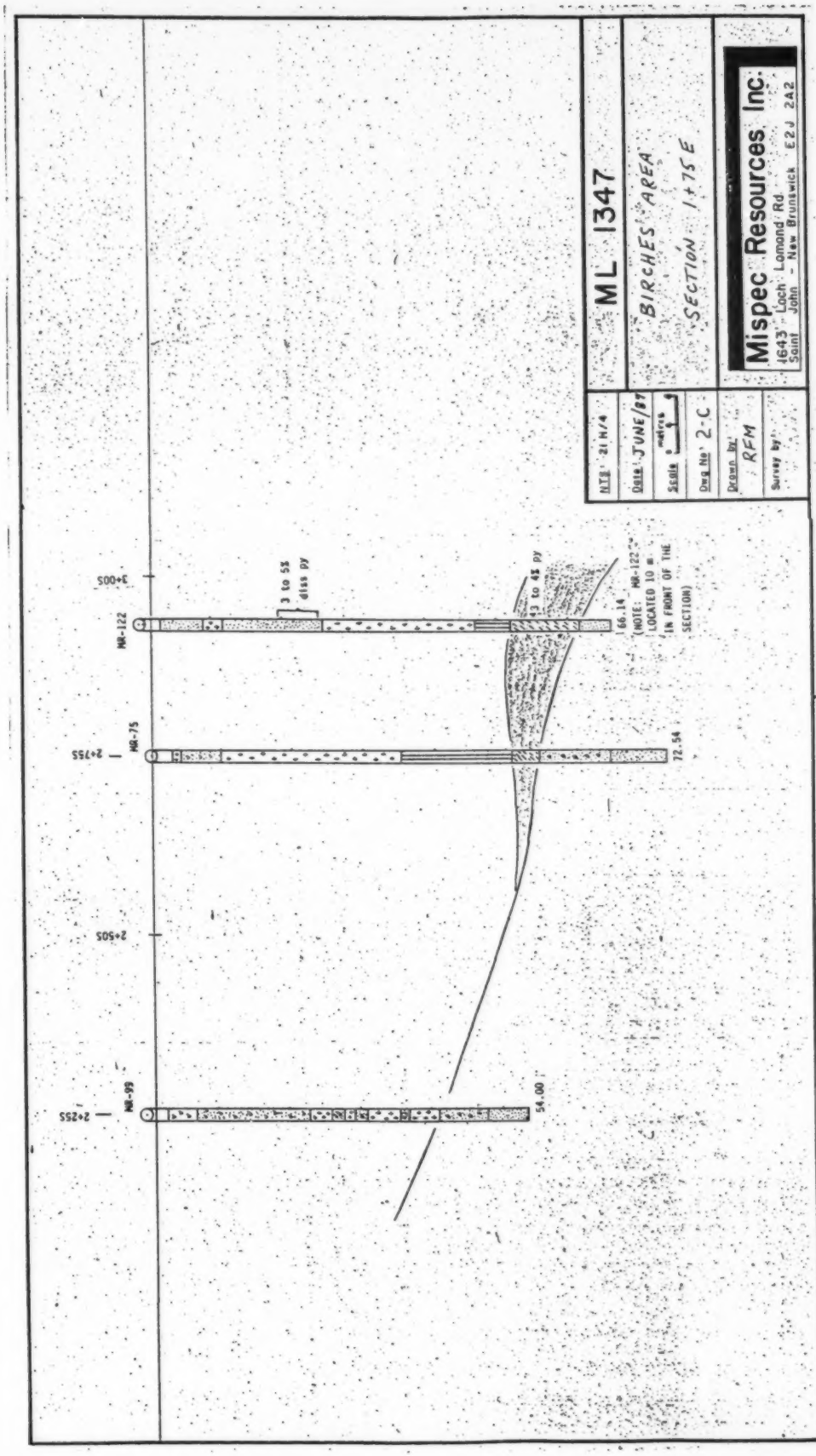
This is a reduction of the original map. Original scale is 1:2 500



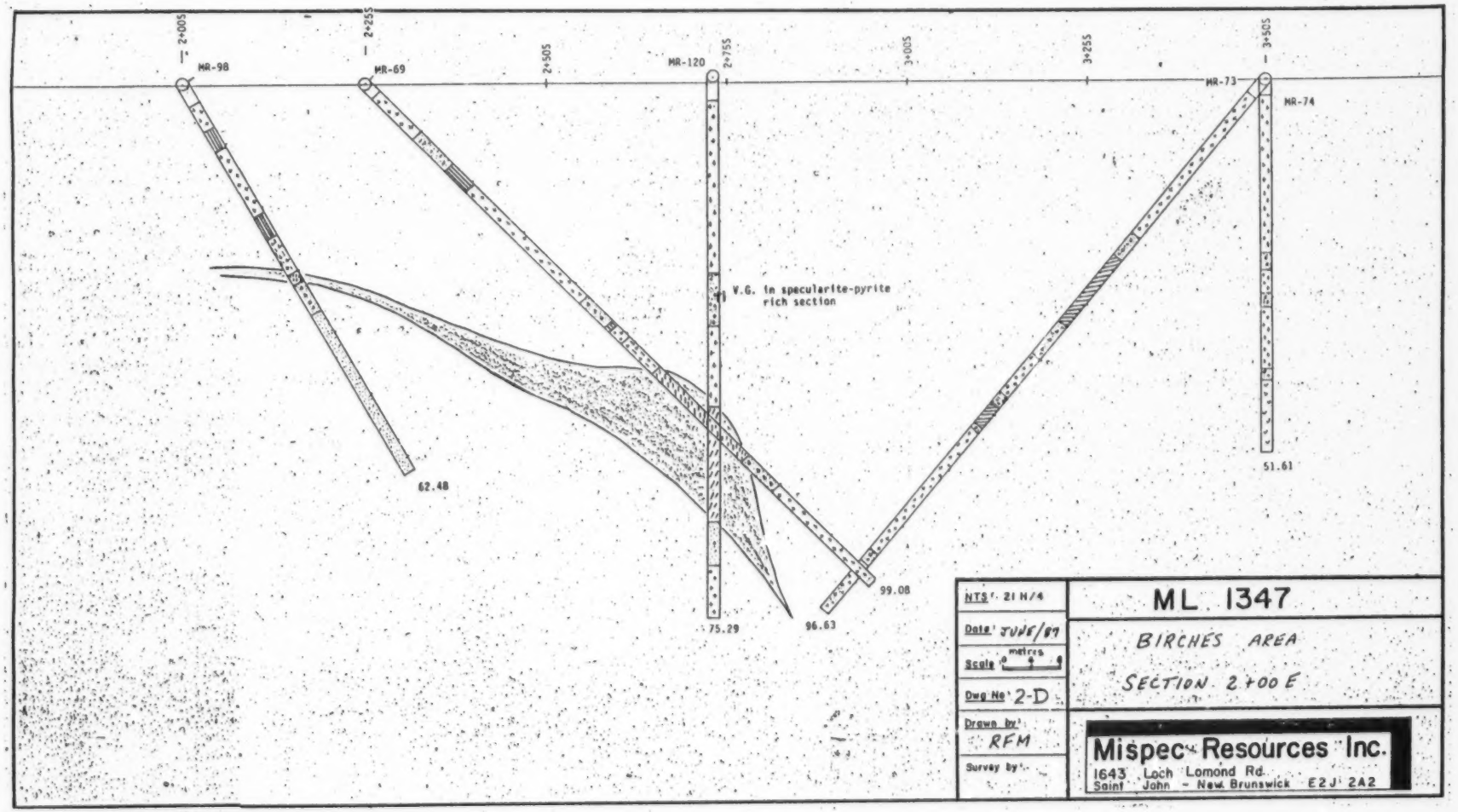
This is a reduction of the original map. Original scale is 1:400.



This is a reduction of the original map. Original scale is 1:400.



This is a reduction of the original map. Original scale is 1:400.



This is a reduction of the original map. Original scale is 1:400.